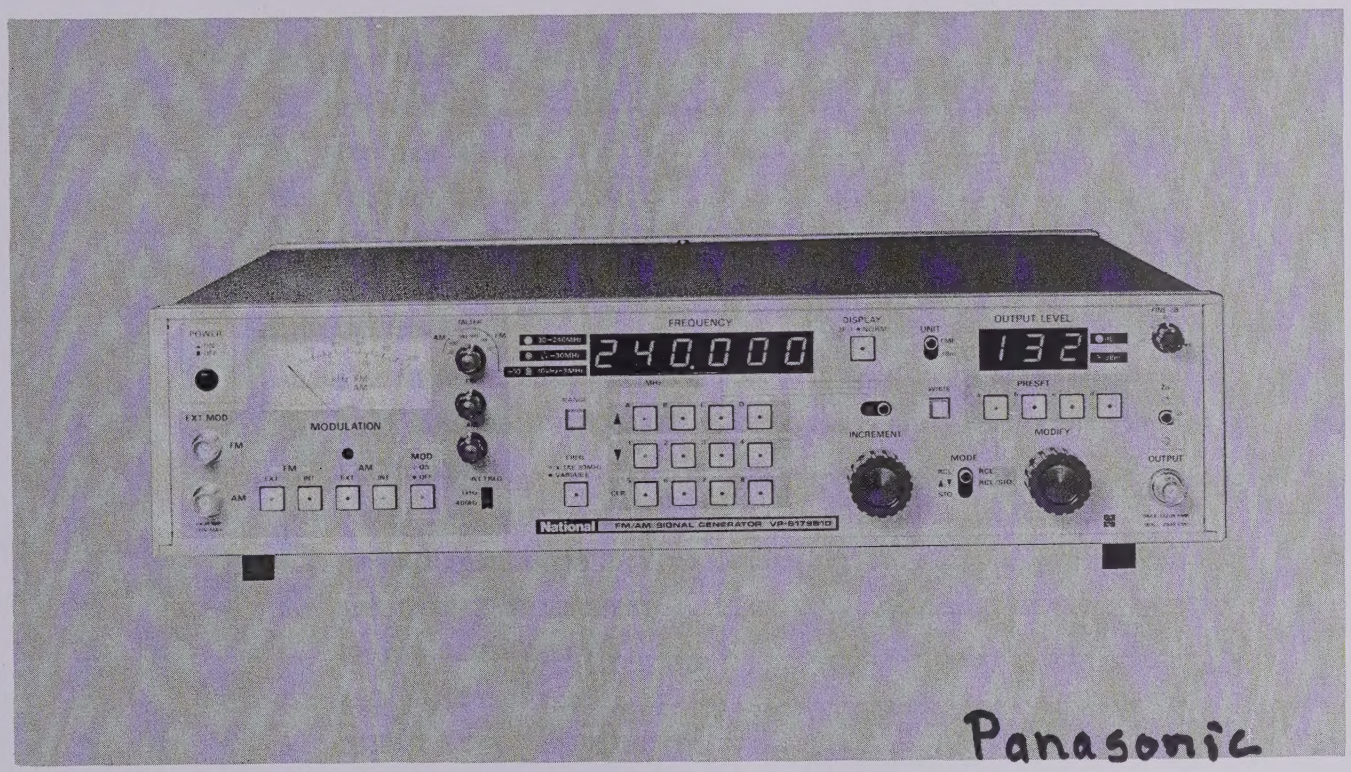
ORDER NO. 8179B10-0

Service Manual

Signal Generator

VP-8179B10



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* When using this service manual, refer to the Operation Manual for the product specifications and operating procedures.

active filter for the PLL circuit. Its output is supplied to the VT terminal of the RF (2) circuit. U7 is the same package operates as the comparator and blinking oscillator. Whenever the set frequency is outside the RF band, it blinks the frequency display as the caution signal and stops counter operation via U8. Y1 is a 10 MHz crystal oscillator to provide the reference frequency for PLL.

U17 and U19 to U21 form a frequency divider which counts down the oscillation frequency from Y1 to provide the 20 msec reference signal.

U15, U16, CR1 and CR2 form a comparator circuit. It sends the time difference between the RF sample signal and reference signal as the frequency correction signal to the active filter.

3. CONTROL A7

This circuit is configured for modulation control, frequency control and output level control.

(1) CONTROL A7-1

. MODULATION switch/latch

U95, U96 and U105 (D-FF) latch the MODULATION switch data for connection to the A7-2 data buffer.

. FREQUENCY switch/latch

U89, U97 and U98 (shift register) latch the FREQUENCY switch data. They connect the data of AD3 to AD7-1 to the A7-2 memory.

. OUTPUT LEVEL switch/latch

U88 (shift register) latches the OUTPUT PRESET switch data for connection to the A7-2 memory.

. Frequency counter control

U57 (NOR), U102 (AND), and U107 and U108 (NAND) control the frequency counter according to the MODE switch position.

. Frequency counter

U35 to U40 (4-bit presettable BCD U/D counter) preset the data from the A7-2 memory. The output data is connected to the data selector.

. ΔF counter

U21, U23, U25 and U27 (4-bit BCD U/D counter) are reset when the DISPLAY switch is set to ΔF, and the digital frequency display becomes 0.

. Data selector

U4, U6, U25 and U27 (AND-OR select gate) connects either the frequency counter data or the ΔF counter data to the decoder driver. Setting the

DISPLAY switch (A6·S2) to NORM (OFF) causes the $\overline{Q}$ of U44 (D-FF) to go to H-level.

. Range control

U53 to U56 and U69 to U72 (4-bit magnitude comparator) compares the RANGE switch data with the frequency counter data. As a result, one of Q2, Q3 and Q4 is turned ON while one of U86-3, 4, 10 and 11 (AND) goes to L-level.

. Frequency decoder driver

U1 to U3, U5, U7 and U9 (BCD to 7-segment decoder/driver) form a decoder/driver for digital frequency display. Setting the FREQUENCY switch to XTAL 89 MHz turns the display off.

(2) CONTROL A7-2

. Data buffer

U17 to U20, U22, U24 and U26 (3-state bus inverters) connect the digital frequency display data and output level attenuator data to the memory. The data is input to the memory in 8-bit unit according to the address designation.

. Memory control

U58 and U74 (demultiplexer), U59 (NOR), U60 (AND), U93 and U94 (NAND) control memory data read/write according to the positions of the MODE switch, FREQUENCY switch and OUTPUT LEVEL switch. U77 (NAND) and Q14 (TR) operate to protect the memory data at the time of power OFF.

. Data memory

U75 and U76 (C-MOS RAM) store the MODULATION data, FREQUENCY DATA and OUTPUT LEVEL data.

. Latch counter

U45 and U46 (presettable binary up/down counter) latch the data from the memory according to the UNIT and ZO select switch positions.

For example, the output data from the memory is "24H" when the UNIT switch is at EMF, ZO select switch is 75 Ω, OUTPUT LEVEL is 5 dB and the maximum attenuation is -31 dB.

5 (dB) = 36 - 31 (dB) ..... Decimal numeral

05H = 24H - 1FH ..... Hexadecimal numeral

The latch data is modified by up/down by the MODIFY rotary encoder. The modified latch data can be preset in the memory by the WRITE switch.

. DOWN counter

U29 and U30 (presettable binary up/down counter) are preset with the

latch counter output data, and carry out down count until the data becomes 0. The clock pulse at the time of down count is connected to the UP counter.

- UP counter

  U14 and U15 (presettable binary up/down counter) are preset with the data determined by the UNIT switch and $Z\overline{o}$ select switch positions. The output data is connected to the decoder/driver when the same number as the down counter is counted up.

- UP/DOWN counter control

  U12 (J-K flip-flop) controls the UP counter and DOWN counter when the UNIT switch (A6.S7) is at EMF or dBm.

  U62-11 (AND) goes to H-level when $Z\overline{o}$ select switch (A10·S10) is at 75 Ω and controls the UP counter.

- OUTPUT LEVEL decoder/driver

  U13 and U15 (BCD to 7-segment latch/decoder/driver) decode the UP counter output data and connect it to A6·DS11 and DS12.

- Attenuator control

  U31 (OR), U32 (NAND), U48 (AND) and U63 (OR) decode the latch counter output data and connect it to A9-2·Q20 to Q23, A10·Q1, Q4, Q7 and Q10.

- ALC bias voltage

  U64 (operational amplifier) sets the ALC bias voltage and connects it to A9-2·U4-3.

  Q11, Q12, Q13 and Q21 (transistors) vary the gain of U64 to regulate the ALC voltage.

  When the OUTPUT LEVEL is set to 129 dBμ or more, Q11 base becomes conductive and the gain of U64-1 is decreased by 1 dB.

  When the OUTPUT LEVEL is set to 130 dBμ, Q13 base becomes conductive and the gain of U64-1 is decreased by 1 dB.

  When the OUTPUT LEVEL is set to 131 dBμ, Q21 base becomes conductive and the gain of U64-7 is decreased by 2 dB.

  When the OUTPUT LEVEL is set to 132 dBμ, Q13 base and Q21 base become conductive.

  When the $Z\overline{o}$ select switch is set to 75 Ω, Q12 base becomes conductive and the gain of U64-1 is decreased by 0.25 dB.

  Setting the MODULATION switch to AM with the FREQUENCY at 3 MHz to 240 MHz causes the AF signal to be connected to U64-3.

4. AF ASSY A12

U1 is a buffer amplifier which amplifies the AM INT/EXT AF signal. U2 amplifies the FM INT/EXT signal and adjusts separation. Q1 and Q2 control MOD ON/OFF. U3 is the AF buffer amplifier, and the amplifier gain is selected according to the METER range.

5. POWER & AF OSC A13

Q4, Q5, U4 and VR1 form the +15 V power supply circuit. Q6 to Q9 and U5 form the -15 V/+5 V power supply circuit, using +15 V as the reference voltage. Q1, U1, CR1 and CR9 form the AF oscillation circuit. Q2, Q3, U2, U3 and CR2 form the AF peak level detection and METER buffer amplifier.

1. CIRCUIT DESCRIPTION

1. RF ASSY A9

(1) RF1 Assy A9-1

Q1, Q2, Q4, Q5, Q7, Q8, Q10 and Q11 form four oscillation circuits. These oscillation circuits cover a frequency band between 120 MHz and 240 MHz. Each of Q3, Q6, Q9 and Q12 is a buffer amplifier for each oscillation stage and sends a signal to buffer amplifier Q13. The control signal from the RF (2) ASSY controls ON/OFF of oscillation in each oscillation circuit.

(2) RF2 ASSY A9-2

U1 is an FM buffer amplifier which supplies an AF signal for modulation to the RF (1). Q1 to Q4 control the buffer amplifier gain. Thus the FM deviation between OSC1, OSC2, OSC3 and OSC4 is made constant. Q5 is turned ON when the output frequency is 30 to 60 MHz to compensate for insufficient FM deviation.

Q7 to Q9 form a buffer amplifier which amplifies the signal from the RF (1) circuit. The output from Q8 is sent to the filter circuit in the next stage while Q9 carries out conversion to TTL level. U2 is a frequency divider consisting of two 1/2 count down circuits. One circuit supplies its output to the filter circuit in the next stage while the other circuit carries out further 1/2 count down and supplies its output to the filter circuit in the next stage. Each output is sent as COUNTER OUT sample signal to the A-8 block. CR2 to CR6, CR8 to CR11 and CR26 form a diode gate to select the filter. CR12 to CR16 form a diode attenuator for ALC and AM control.

Q11 is a base-grounded buffer gate amplifier which allows passage of 30 to 240 MHz signal. Q24 is the same whose pass band is 10 kHz to 30 MHz. Q12 to Q16 form the final stage amplifier. Q15 sets the bias for Q16, Q17 to Q19 and CR21 form a detecting circuit. The time constant is controlled according to the detected frequency. Q20 to Q22 drive the ATT relay.

(3) RF3 ASSY A9-3

Q2, Q3, CR2 and CR3 forms a VT correction circuit. U1 and CR4 to CR6 form a comparator circuit. It detects the VT voltage and controls the detection time constant for the RF (2) circuit. Q4, Q5 and CR7 to CR10 form a mixer circuit. This circuit outputs 100 kHz to 30 MHz signal to buffer amplifier Q6. The output from the buffer amplifier consisting of Q6 and Q7 is sent to

the COUNTER OUT.

U2 is a 1/10 frequency divider. It counts down the 60 to 120 MHz signal from the RF (2) circuit to generate 6 to 12 MHz. The resultant signal is sent to the 8.9 MHz MIX circuit via buffer amplifier Q8. U3 is a 1/10 frequency divider which counts down the 89 MHz OSC signal to 8.9 MHz, which is supplied to the 8.9 MHz MIX circuit. CR12 to CR15 form a mixer circuit, whose output of 10 kHz to 3 MHz is sent as the input signal to buffer amplifier Q14. The output of the buffer amplifier consisting of Q14 to Q16 is sent to the balanced modulation circuit in the next stage. Q10 is an 89 MHz oscillator whose ON/OFF is controlled by Q11. Q12 is a buffer amplifier for signal distribution to each MIX circuit and signal sending to buffer amplifier Q5. CR16 to CR19 and CR21 operate as the ALC·AM gate. Q13 controls the gate. CR20 forms the 89 MHz MIX circuit to output 100 kHz to 30 MHz, which is supplied to buffer amplifier Q42 via buffer amplifier consisting of Q17 and Q18. Q41 controls ON/OFF of the buffer amplifier consisting of Q17 and Q18. U6 is a balanced modulator circuit for amplitude modulation of 10 kHz to 3 MHz. Its output is sent to buffer amplifier Q42 via the buffer amplifier consisting of Q19 and Q20.

U4 and U5 form the ALC amplifier for level control of the RF input to the final stage amplifier in the RF (2) circuit and it also serves as the AF amplifier for amplitude modulation.

Q21 to Q40 and U7 to U10 form the control circuit for RF (1) and (2) circuits. Control signals are input from the CONTROL A7 circuit.

2. COUNTER A8

Q1 to Q3 form a buffer amplifier. It amplifies the signal from RF (2) COUNTER OUT and converts it to the TTL level. Its output signal is sent to U12 and U9. U12 is a frequency divider for 1/10 count down for the output frequency band of 240 MHz to 120 MHz or 1/20 count down for 120 MHz to 30 MHz. U10 operates as a 1/2 frequency divider when the output frequency band is either 30 MHz to 100 kHz or 3 MHz to 10 kHz. U8, U9 and U11 control RF sample signal input to the frequency divider and PLL time constant selection/blinking circuit.

U1 to U6 form a presettable counter. It counts down according to the displayed frequency and sends the borrow output to U16. U13 controls PLL time constant selection. It reads the two most significant digits of the displayed frequency and sends the signal to analog switch U14. U7 is the

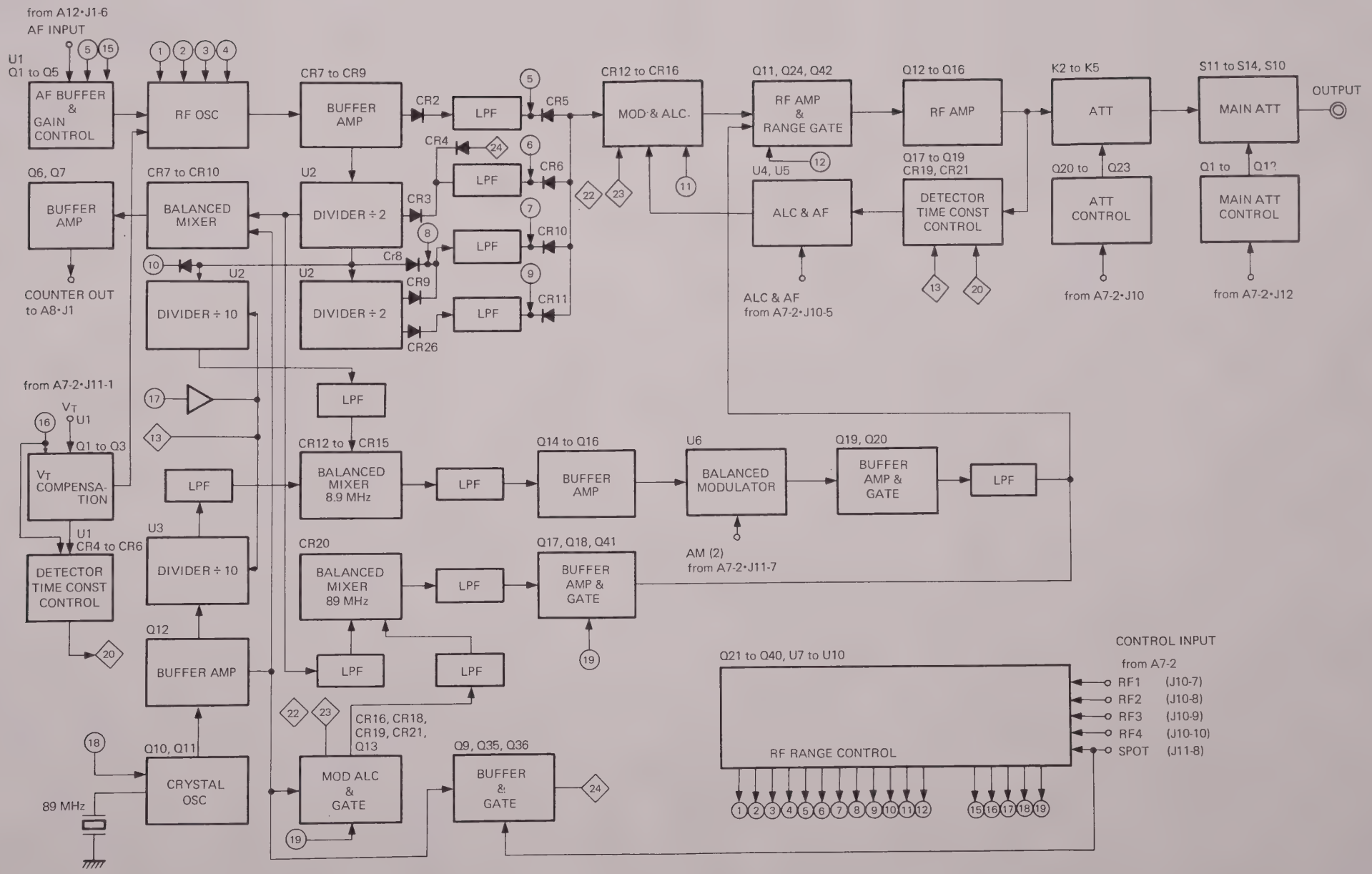


Fig. 1-1
RF, BLOCK DIAGRAM

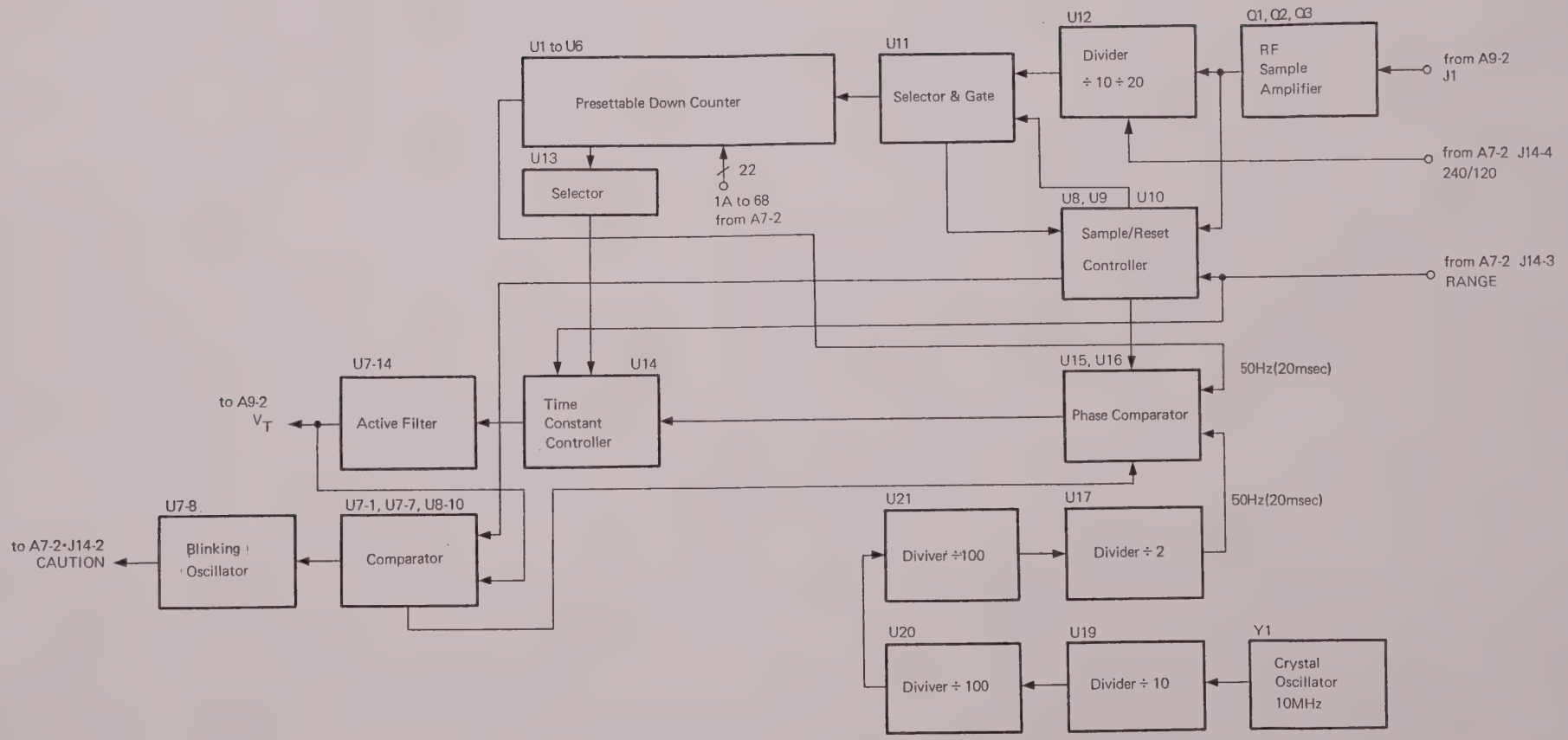


Fig. 1-2
COUNTER, BLOCK DIAGRAM

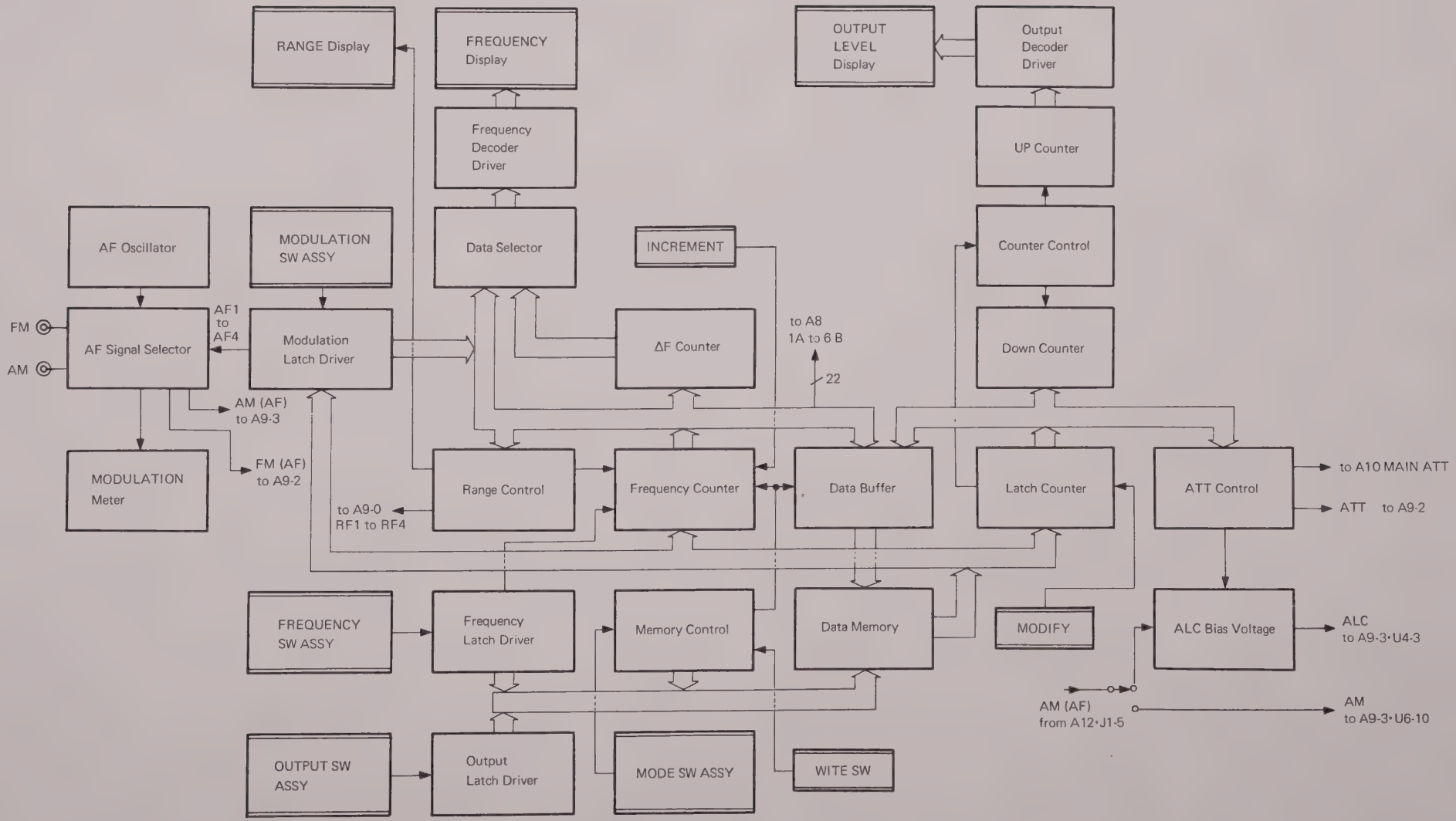


Fig. 1-3
CONTROL, BLOCK DIAGRAM

2. ADJUSTMENT PROCEDURE

1. TEST EQUIPMENT REQUIRED

The exact tasting equipment required depends on the items to be adjusted. Make sure that the testing instructions are calibrate.

(1) Frequency counter

Frequency, 20 Hz to 250 MHz, period, 0.1 sec to 1 μsec; fundamental frequency stability, 1 MHz·5 × 10^{-8}/day.

National VP-4551A Electric Counter recommended.

(2) TEST oscilloscope

Bandwidth, DC to 20 MHz or more; dynamic range, 80 dB or more.

National VP-5403A Oscilloscope recommended.

(3) DC voltmeter

Accuracy, within ±0.05%, voltage, 200 mV to 1000 V, 5 ranges.

National VP-2660A Digital Multimeter recommended.

(4) RF voltmeter

Accuracy, within ±1%, voltage, 300 mV to 3 V; frequency, 10 kHz to 250 MHz.

For example, Boonton Model 92A RF millivoltmeter

(5) Modulation analyzer

FM, 0 to 300 kHz or more; AM, 0 to 99%.

For example, Hewlett-Packed Model 8901A Modulation Analyzer.

(6) Distortion meter

Fundamental frequency elimination ratio, 90 dB or more; frequency, 20 Hz to 150 kHz.

National VP-7702C Distortion Meter recommended.

(7) RC oscillator

Distortion factor, 0.002% or less; frequency, 20 Hz to 99.9 kHz.

National VP-7220C RC Oscillator recommended.

(8) Stereo signal generator

Separation, 66 dB or more; frequency, DC to 15 kHz.

National VP-7633A Stereo Modulator recommended.

2. PREPARATION

(1) Switch on the unit and allow it to warm up for at least 60 minutes.

(2) Initialize the panel mode as follows:

- Zo 50
- FINE dB 0
- UNIT ..... EMP
- OUTPUT LEVEL ..... 128 dB
- DISPLAY ..... NORM
- FREQ ..... VARIABLE
- MODE Key switch ..... OFF
- MODE Slide switch ..... ▲▼

3. POWER SUPPLY ADJUSTMENT

☐ +15 V ADJ

- Connect the DC voltmeter to A13·J1-5.
- Adjust A13·R39 for a reading of +15 V ±0.1%.

☐ -15 V check

- Connect the DC voltmeter to A11·J1-4.
- Make sure that -15 V ±1% is satisfied.

☐ +5 V check

- Connect the DC voltmeter to A13·J1-3
- Make sure that +5 V ±1% is satisfied.

4. AF OSC ADJUSTMENT

Since the following adjustment items are mutually influential, make adjustment by repeating two to three times from the first item.

☐ LEVEL

- Set the INT FREQ to 1 kHz.
- Connect the distortion factor meter (for level measurement) to A13·J1-7.
- Adjust A13·R19 for a reading of 3 V_{rms}.

☐ DIST 2

- Connect the oscilloscope to A13·J1-7.
- Connect the DC voltmeter to the intersection between A13·R13 and A13·R19.
- Make adjustment by turning A13·R8 gradually until the abnormal oscillation waveform is shaped to 1 kHz oscillation waveform.
  Adjustment is proper if the voltage is between -1.9 Vdc and 1.6 Vdc.

☐ 1 kHz

- Connect the frequency counter to A13·J1-7.
- Adjust A13·R54 for a reading of 1 kHz ±2%.

☐ 400 Hz

- Set the INT FREQ to 400 Hz.
- Connect the frequency counter to A13·J1-7.
- Adjust R13·R55 for a reading of 400 Hz ±2%.

☐ L BAL

- Connect the distortion factor meter to A13·J1-7.
- Adjust R13·R2 for a reading of $3V_{rms}$ ±5%.

☐ DIST 1

- Adjust A13·R12 until the distortion factor at 400 Hz becomes 0.002% or less.
- Make sure that the distortion factor at 1 kHz becomes 0.002% or less.

5. AMP OFFSET ADJUSTMENT

☐ DC OFFSET

- Connect the oscilloscope to A12·U2-6. Set the V-axis to 2 mV/DIV.
- Adjust A12·R25 for a reading of 0 Vdc.

☐ METER OFFSET

- Connect the oscilloscope to A13·U2-6. Set the V-axis to 2 mV/DIV.
- Adjust A13·R32 for a reading of 0 Vdc.

6. RF OSC ADJUSTMENT

- Connect the DC voltmeter to A8·VT. Set it to the 20 V range.

☐ L3

- Set the FREQUENCY to 240.000 MHz.
- Adjust the aluminum core of A9-1·L3 for a reading of -12.2 V ±0.1%.

☐ L6

- Set the FREQUENCY to 207.999 MHz.
- Adjust the aluminum core of A9-1·L6 for a reading of -12.1 V ±0.1%.

☐ L9

- Set the FREQUENCY to 175.999 MHz.
- Adjust the aluminum core of A9-1·L9 for a reading of -11.77 V ±0.1%.

☐ L12

- Set the FREQUENCY to 143.999 MHz.
- Adjust the aluminum core of A9-1·L12 for a reading of -11.77 V ±0.1%.

☐ 10 MHz

- Connect the frequency counter to the OUTPUT.

. Set the RANGE to 3-30 MHz and the FREQUENCY to 30.000 MHz. ..... A
. Set the RANGE to 30-240 MHz and the FREQUENCY to 30.000 MHz. ... B
. Adjust A8·Y1 to satisfy the following equation:
30 MHz ±5 × 10^{-6} ±1 count = (A + B) / 2

□ 89 MHz

. Set the FREQ to XTAL 89 MHz.
. Connect the oscilloscope and frequency counter to A9-3·Q12-E.
. Adjust A9-3·C78 until the amplitude of the observed waveform is maximized.
. Make fine adjustment of A9-3·C78 for a reading of 89 MHz ±3 × 10^{-5} when the amplitude is set to 90-70% of the maximum amplitude.

7. ALC ADJUSTMENT

. Set the RANGE to (0.1)-30 MHz and FREQUENCY to 350 kHz

□ A9-3·R15

. Connect the DC voltmeter to A9-3·U1-7.
. Adjust A9-3·R15 until the H level is obtained.

□ (0.1)-30 MHz ALC check

. Connect the DC voltmeter to A9-3·U4-1.
Check that the ALC voltage is about +4 V for all frequencies in the range of (0.1) to 30 MHz.

8. OUTPUT LEVEL ADJUSTMENT

. Set the RANGE to 30-240 MHz and the FREQUENCY to 100 MHz.
. Connect the RF voltmeter to the OUTPUT.

□ MAX

. Set the FINE dB to +1.
. Adjust A7-2·R157 for a reading of 129 dB ±0.5 dB.

□ MIN

. Set the FINE dB to -1.
. Adjust A7-2·R156 for a reading of 127 dB ±0.5 dB.

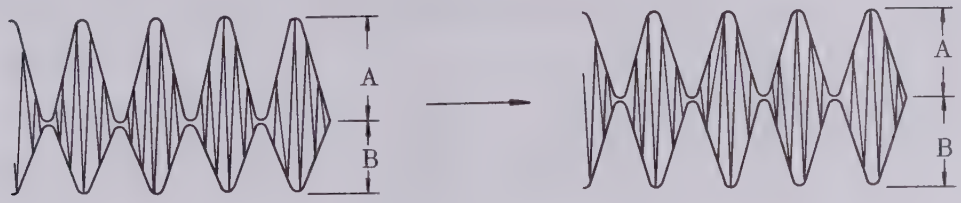
9. AM ADJUSTMENT

. Set the MODULATION to MOD·ON and the AM to 100.

□ AM BAL

. Set the MODULATION to AM·EXT and turn the AM knob fully clockwise.
. Set the RANGE to 10 kHz to 3 MHz and the FREQUENCY to 1 MHz.

. Connect the oscilloscope to the OUTPUT.
. Connect the RC oscillator to the EXT MOD·AM and set to 10 kHz output signal.
. Adjust the output voltage of the RC oscillator to set the waveform observed on the oscilloscope to 100% modulation.
. Adjust A9-3·R105 until the observed waveform becomes vertically symmetric. (See the figure below.)



A > B A = B

□ AM DIST
. Set the MODULATION to AM·INT, INT·FREQ to 400 MHz, and AM knob to 50% on meter.
. Set the RANGE to 10 kHz-3 MHz, and FREQUENCY to 1 MHz.
. Connect the modulation analyzer to the OUTPUT. (Condition: LPF 3 kHz)
. Connect the distortion factor meter to the OUTPUT of the modulation analyzer. (Condition: LPF 100 kHz)
. Adjust A9-3·R105 until the indication on the distortion factor meter becomes 0.1% or less.
* After this adjustment, readjust A9-3·R105 in the preceding step.

□ AM METER
. Set the MODULATION to AM·INT and INT FREQ to 400 Hz.
. Set the RANGE to 10 kHz-3 MHz, and FREQUENCY to 1 MHz.
. Connect the modulation analyzer to the OUTPUT.
. Turn the AM knob until the modulation analyzer reading becomes 80%.
. Adjust A13·R23 so that the modulation meter indicates 80% ±5%.

□ AM1
. Carry out the following operation in succession to the above:
. Set the RANGE to 3-30 MHz, and FREQUENCY to 10 MHz.
. Roughly adjust A7-2·R80 so that the modulation analyzer indicates 80%.
. Set the RANGE to 30-240 MHz.
. Carry out fine adjustment of A7-2·R80 so that the modulation analyzer indicates 80% ±10% for the entire frequency range between 30 and 240 MHz.

10. FM ADJUSTMENT

. Set the MODULATION to MOD·ON, FM·100, FM·INT and INT FREQ·1 kHz.
. Set the RANGE to 30-240 MHz.
. Connect the modulation analyzer to the OUTPUT.

☐ FM METER

. Set the FREQUENCY to 132 MHz.
. Turn the FM knob until the modulation analyzer reading becomes 100 kHz.
. Adjust A12·R13 so that the MODULATION meter indicates 100 kHz ±5%.

☐ 160 MHz

. Set the FREQUENCY to 160 MHz.
. Adjust A9-2·R12 until the modulation analyzer indicates 100 kHz.

☐ 192 MHz

. Set the FREQUENCY to 192 MHz.
. Adjust A9-2·R13 so that the modulation analyzer indicates 100 kHz.

☐ 224 MHz

. Set the FREQUENCY to 224 MHz.
. Adjust A9-2·R14 so that the modulation analyzer indicates 100 kHz.

☐ 66 MHz

. Set the FREQUENCY to 66 MHz.
. Adjust A9-2·R15 so that the modulation analyzer indicates 100 kHz.

☐ SEP ADJ

. Set the FREQUENCY to 95 MHz.
. Set the MODULATION to FM·EXT, and turn the FM knob fully clockwise.
. Connect the stereo modulator to the EXT MOD·FM, and set to 1 kHz L + R output signal.
. Adjust the stereo modulator output voltage so that the MODULATION meter indicates 67.5 kHz.
. Connect a linear detector to the OUTPUT, and connect the oscilloscope to the linear detector output.
. Adjust A12·R10 so that the separation 60 dB or more.

3. PARTS LIST

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PANNEL & CHASSIS DWG NO 4G204180

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
	** 1	VQ027C74W013	CABLE ASSY		12573	968600070
J	3	UG625UNI	CONNECTOR:COAX	BNC PANEL JACK	12402	912400200
J	4	UG625UNI	CONNECTOR:COAX	BNC PANEL JACK	12402	912400200
M	1	81A06	P8178B METER	MOD	14380	950001740
P	1	CM3	CONNECTOR	PWR JACK 3P	15360	911001791
S	1	ESB701T	PUSHB SW	DPDT 3A-250V AC	29810	873000840
T	1	3G430453	P8204A TRANSFORMER	PWR	ORGNL	850003830
XF	*1	FEK031.1663	FUSE HOLDER CAP	5X20MM FUSE	14385	891600430
XF	1	FEU031.1653	FUSE HOLDER	SEV,VDE,SEMKO,UL AND CSA	14385	891600420

KEY BOARD ASSY DWG NO 4G204432

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
E	1	2G400748-1	P8178B PC BOARD	KEY BOARD	ORGNL	972074810
E	2	3G401246-1	P8179B10 PC BOARD		ORGNL	973124610
P	15	M3110S17	CONNECTOR:PIN	10P L:700	16368	911002160
R	1	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	2	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	3	EWTXDPS2040B	R:C-P ROTARY ENCODER		29871	812900550
R	4	EWTXDPS2040B	R:C-P ROTARY ENCODER		29871	812900550
S	*14	KT7	KEY TOP	KEG10901-CAP	11154	873004000
S	*18	KT7	KEY TOP	KEG10901-CAP	11154	873004000
S	1	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	2	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	3	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	4	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	5	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	6	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	7	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	8	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	9	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	10	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	11	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	12	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	13	SSM023(2)	SLIDE SW	DC30V 0.3A	11154	872001200
S	14	KEG10901	KEY BOARD SW	DC12V 20MA	11154	873003990
S	17	SSM023(2)	SLIDE SW	DC30V 0.3A	11154	872001200
S	18	KEG10901	KEY BOARD SW	DC12V 20MA	11154	873003990
S	19	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	20	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	21	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	22	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	23	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	24	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	25	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	26	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	27	81S01	P9602A PUSHB SW	RANGE	11154	873004010
S	28	81S01	P9602A PUSHB SW	RANGE	11154	873004010

LED ASSY DWG NO 4G204183

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
10	KL02	LED SOCKET		11226	903500700
DS 1	LN48YP	LED	AMBER	29269	776000900
DS 2	LN48YP	LED	AMBER	29269	776000900
DS 3	LN48YP	LED	AMBER	29269	776000900
DS 4	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 5	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 6	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 7	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 8	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 9	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 10	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 11	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 12	LN514GK	LED	GREEN 7-SEGMENT	29269	776000700
DS 13	LN48YP	LED	AMBER	29269	776000900
DS 14	LN48YP	LED	AMBER	29269	776000900
E 1	2G401237-1	P8179B PC BOARD	LED	ORGNL	972123710
R 1	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 2	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 3	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 4	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 5	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 6	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
S 1	SSM022(2)	SLIDE SW	DC30V 0.3A	11154	872001180
S 2	81S01	P9602A PUSHB SW	RANGE	11154	873004010

CONTROL ASSY DWG NO 4G204433

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
BT	GB50-3S	BATTERY:NI-CAD	3.6V 50MAH	14513	890400181
C 1	ECEA1AS470	C:FXD AL ELECT	47UF +-20% 10V	29880	820018170
C 2	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C 3	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C 4	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 5	ECCW1H330KC5	C:FXD CER TC	33PF +-10% 50V NPO	29897	822000655
C 6	ECCW1H330KC5	C:FXD CER TC	33PF +-10% 50V NPO	29897	822000655
C 7	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 8	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 9	ECEA1CN470S	C:FXD AL ELECT	47UF +-20% 10V	29880	820373140
C 10	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 11	ECEA1HS4R7	C:FXD AL ELECT	4.7UF +-20% 50V	29880	820018840
C 12	ECEA1HS4R7	C:FXD AL ELECT	4.7UF +-20% 50V	29880	820018840
C 13	ECEA1HS4R7	C:FXD AL ELECT	4.7UF +-20% 50V	29880	820018840
C 14	ECEA1HS4R7	C:FXD AL ELECT	4.7UF +-20% 50V	29880	820018840
C 15	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 16	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C 17	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 18	ECCW1H330KC5	C:FXD CER TC	33PF +-10% 50V NPO	29897	822000655
C 19	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 20	ECKW1H102ZF5	C:FXD CER HI-K	1000PF +80-20% 50V	29897	822000130
C 21	ECCW1H101KC5	C:FXD CER TC	100PF +-10% 50V NPO	29897	822000661
C 22	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 23	ECCW1H330KC5	C:FXD CER TC	33PF +-10% 50V NPO	29897	822000655
C 24	ECCW1H330KC5	C:FXD CER TC	33PF +-10% 50V NPO	29897	822000655
C 25	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 26	ECKW1H102KB5	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000109
C 27	ECKW1H472ZF5	C:FXD CER HI-K	4700PF +80-20% 50V	29897	822000132
C 28	ECKW1H102ZF5	C:FXD CER HI-K	1000PF +80-20% 50V	29897	822000130
C 29	ECKW1H102ZF5	C:FXD CER HI-K	1000PF +80-20% 50V	29897	822000130
C 30	ECCW1H330KC5	C:FXD CER TC	33PF +-10% 50V NPO	29897	822000655
C 31	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 32	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 33	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 34	ECEA1HS010	C:FXD AL ELECT	1UF +-20% 50V	29880	820018810
C 35	ECCW1H101KC5	C:FXD CER TC	100PF +-10% 50V NPO	29897	822000661
C 36	ECCW1H101KC5	C:FXD CER TC	100PF +-10% 50V NPO	29897	822000661
C 37	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 38	ECEA1AS470	C:FXD AL ELECT	47UF +-20% 10V	29880	820018170
C 39	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 40	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 41	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 42	ECKW1H102KB5	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000109
C 43	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 44	ECQM1H473KZ	C:FXD FLM	0.047UF 10% 50V	26550	825134740
C 45	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 46	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 47	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 48	ECEA1HS010	C:FXD AL ELECT	1UF +-20% 50V	29880	820018810
C 49	ECEA1HS010	C:FXD AL ELECT	1UF +-20% 50V	29880	820018810
C 50	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 51	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 52	ECKW1H472ZF5	C:FXD CER HI-K	4700PF +80-20% 50V	29897	822000132
C 53	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 54	ECKW1H472ZF5	C:FXD CER HI-K	4700PF +80-20% 50V	29897	822000132
C 55	ECEA1HS010	C:FXD AL ELECT	1UF +-20% 50V	29880	820018810
C 56	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 57	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 58	ECKW1H103ZF5	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000133
C 60	ECQM1H103KZ	C:FXD FLM	0.01UF 10% 50V	26550	825131040
C 65	ECKW1H102KB5	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000109

CONTROL ASSY DWG NO 4G204433

REF NO	PART NO	DESCRIPTION		MFR/DER	CODE-NO
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 2	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 3	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 4	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 5	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 6	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 7	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 8	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 9	MA150TA	DIODE:SI	100MA 35V	29269	773150010
E 1	2G401268-1	P8179B PC BOARD	CONTROL	ORGNL	972126810
J 1	M3310P03	CONNECTOR:PIN	10P ANGLE	16368	911002070
J 2	M3115P03	CONNECTOR:PIN	15P SINGLE 2.5PITCH R/A	16368	911001940
J 3	M3115P03	CONNECTOR:PIN	15P SINGLE 2.5PITCH R/A	16368	911001940
J 4	M3310P03	CONNECTOR:PIN	10P ANGLE	16368	911002070
J 5	M3310P03	CONNECTOR:PIN	10P ANGLE	16368	911002070
J 6	M3310P03	CONNECTOR:PIN	10P ANGLE	16368	911002070
J 7	163683-8	CONNECTOR:PIN	CIS 10P 2.5PITCH	14441	911101160
J 8	1-163683-4	CONNECTOR:PIN	CIS 15P 2.5PITCH	14441	911101440
J 9	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
J 10	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
J 11	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
J 12	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
J 13	M3115P01	CONNECTOR:PIN	15P	16368	911002030
J 14	M3115P01	CONNECTOR:PIN	15P	16368	911002030
J 15	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
K 1	AE5349	REED RELAY	5V,1A-20VDC 1PDT	29246	876001200
P 12	M3110S13	CONNECTOR:PIN	10P L:300	16368	911002140
P 15	M3110S21	CONNECTOR:PIN	10P L:100	16368	911002130
Q 1	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 2	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 3	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 4	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 5	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 6	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 7	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 8	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 9	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 10	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 11	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 12	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 13	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 14	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 15	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 16	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 17	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 18	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 19	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 20	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 21	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 22	2SB642	TSTR:SI PNP	PC:400MW	29269	761642000
Q 23	2SB642	TSTR:SI PNP	PC:400MW	29269	761642000
R 1	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 2	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 3	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 4	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 5	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 6	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 7	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 8	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 9	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 10	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330

CONTROL ASSY DWG NO 4G204433

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 11	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 12	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 13	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 14	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 15	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 16	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 17	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 18	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 19	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 20	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 21	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 22	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 23	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 24	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 25	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 26	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 27	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 28	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 29	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 30	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 31	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 32	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 33	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 34	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 35	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 36	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 37	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 38	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 39	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 40	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 41	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 42	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 43	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 44	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 45	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 46	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 47	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 48	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 49	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 50	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 51	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 52	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 53	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 54	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 55	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 56	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 57	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 58	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 59	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 60	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 61	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 62	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 63	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 64	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 65	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 66	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 67	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 68	ERD25TJ243V	R:FXD CARBON	24K OHM 5% 1/4W	29866	807323240
R 69	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 70	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 71	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 72	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 73	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 74	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 75	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 76	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100

CONTROL ASSY DWG NO 4G204433

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R	77	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	78	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	79	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	80	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	81	ERD25TJ473V	R:FXD CARBON	47K OHM 5% 1/4W	29866	807323470
R	82	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	83	ERD25TJ333V	R:FXD CARBON	33K OHM 5% 1/4W	29866	807323330
R	84	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	85	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	86	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	87	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	88	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	89	ERO25CKF4322	R:FXD MET FLM	43.2K OHM 1% 1/4W	29866	806622432
R	90	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	91	ERO25CKF1002	R:FXD MET FLM	10K OHM 1% 1/4W	29866	806622100
R	92	ERO25CKF4122	R:FXD MET FLM	41.2K OHM 1% 1/4W	29866	806622412
R	93	ERD25TJ330V	R:FXD CARBON	33 OHM 5% 1/4W	29866	807320330
R	94	ERO25CKF6492	R:FXD MET FLM	64.9K OHM 1% 1/4W	29866	806622649
R	95	ERO25CKF5491	R:FXD MET FLM	5.49K OHM 1% 1/4W	29866	806621549
R	96	ERO25CKF5491	R:FXD MET FLM	5.49K OHM 1% 1/4W	29866	806621549
R	97	ERO25CKF1242	R:FXD MET FLM	12.4K OHM 1% 1/4W	29866	806622124
R	98	ERO25CKF4022	R:FXD MET FLM	40.2K OHM 1% 1/4W	29866	806622402
R	99	ERO25CKF9092	R:FXD MET FLM	90.9K OHM 1% 1/4W	29866	806622909
R	100	ERD25TJ334V	R:FXD CARBON	330K OHM 5% 1/4W	29866	807324330
R	101	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	102	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	103	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	104	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	105	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	106	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	107	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	108	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	109	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	110	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	111	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R	112	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	113	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	114	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	115	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	116	ERD25TJ184V	R:FXD CARBON	180K OHM 5% 1/4W	29866	807324180
R	117	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	118	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	119	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	120	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	121	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	122	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	123	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	124	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	125	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	126	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	127	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	128	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	129	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	130	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	131	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	132	ERD25TJ333V	R:FXD CARBON	33K OHM 5% 1/4W	29866	807323330
R	133	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	134	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	135	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	136	ERD25TJ223V	R:FXD CARBON	22K OHM 5% 1/4W	29866	807323220
R	137	ERD25TJ223V	R:FXD CARBON	22K OHM 5% 1/4W	29866	807323220
R	138	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	139	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	140	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	141	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100

CONTROL ASSY DWG NO 4G204433

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R	142	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R	143	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	144	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	145	ERD25TJ334V	R:FXD CARBON	330K OHM 5% 1/4W	29866	807324330
R	146	ERD25TJ154V	R:FXD CARBON	150K OHM 5% 1/4W	29866	807324150
R	147	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	148	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	149	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	150	EXBP84104M	R:NETWORK	100K OHM X4 20% 1/8W	29861	809990380
R	151	EXBP88104M	R:NETWORK	100K OHM X8 10% 1/8W	29861	809990530
R	152	EXBP88104M	R:NETWORK	100K OHM X8 10% 1/8W	29861	809990530
R	153	EXBP84104M	R:NETWORK	100K OHM X4 20% 1/8W	29861	809990380
R	154	EXBP88104M	R:NETWORK	100K OHM X8 10% 1/8W	29861	809990530
R	155	EVHE2A337B14	R:VAR CARBON		29871	810510370
R	156	SR19R223B	R:VAR COMP	22K OHM 25% 1/8W	11154	819910070
R	157	SR19R103B	R:VAR COMP	10K OHM 25% 1/8W	11154	819910250
R	158	SR19R472B	R:VAR COMP	4.7K OHM 25% 1/8W	11154	819910050
R	159	ERD25TJ333V	R:FXD CARBON	33K OHM 5% 1/4W	29866	807323330
R	160	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	161	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
U	1	TC5002BP	IC:C MOS	BCD-TO-7 SEGMENT DECODER	17160	602020170
U	2	CMOS4511BP	IC:C MOS	BCD-TO-7SEG DCDR/DRVR	17160	602245110
U	3	CMOS4511BP	IC:C MOS	BCD-TO-7SEG DCDR/DRVR	17160	602245110
U	4	CMOS4019BP	IC:C MOS	QUAD AND-OR SELECT	17160	602240190
U	5	CMOS4511BP	IC:C MOS	BCD-TO-7SEG DCDR/DRVR	17160	602245110
U	6	CMOS4019BP	IC:C MOS	QUAD AND-OR SELECT	17160	602240190
U	7	CMOS4511BP	IC:C MOS	BCD-TO-7SEG DCDR/DRVR	17160	602245110
U	8	CMOS4019BP	IC:C MOS	QUAD AND-OR SELECT	17160	602240190
U	9	CMOS4511BP	IC:C MOS	BCD-TO-7SEG DCDR/DRVR	17160	602245110
U	10	CMOS4019BP	IC:C MOS	QUAD AND-OR SELECT	17160	602240190
U	11	CMOS4069UBP	IC:C MOS	HEX INVERTER	17160	602240690
U	12	CMOS4027BP	IC:C MOS	DUAL J-K M.S F-F	17160	602240270
U	13	TC5002BP	IC:C MOS	BCD-TO-7 SEGMENT DECODER	17160	602020170
U	14	CMOS4516BP	IC:C MOS	BINARY UP/DOWN COUNTER	17160	602245160
U	15	CMOS4511BP	IC:C MOS	BCD-TO-7SEG DCDR/DRVR	17160	602245110
U	16	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	17	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	18	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	19	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	20	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	21	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	22	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	23	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	24	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	25	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	26	TC5012BP	IC:C MOS	3-STATE NON-INV BUFFER	17160	602020260
U	27	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	28	CMOS4002BP	IC:C MOS	DUAL 4-INPUT NOR GATE	17160	602240020
U	29	CMOS4516BP	IC:C MOS	BINARY UP/DOWN COUNTER	17160	602245160
U	30	CMOS4516BP	IC:C MOS	BINARY UP/DOWN COUNTER	17160	602245160
U	31	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U	32	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U	33	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U	34	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U	35	CMOS4516BP	IC:C MOS	BINARY UP/DOWN COUNTER	17160	602245160
U	36	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	37	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	38	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	39	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	40	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U	41	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U	42	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U	43	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710

CONTROL ASSY DWG NO 4G204433

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
U 44	CMOS4013BP	IC:C MOS	DUAL D-TYPE FLIP-FLOP	17160	602240130
U 45	CMOS4516BP	IC:C MOS	BINARY UP/DOWN COUNTER	17160	602245160
U 46	CMOS4516BP	IC:C MOS	BINARY UP/DOWN COUNTER	17160	602245160
U 47	CMOS4069UBP	IC:C MOS	HEX INVERTER	17160	602240690
U 48	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 49	CMOS4001BP	IC:C MOS	QUAD 2-INPUT NOR GATE	17160	602240010
U 50	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 51	CMOS4001BP	IC:C MOS	QUAD 2-INPUT NOR GATE	17160	602240010
U 52	CMOS4027BP	IC:C MOS	DUAL J-K M.S F-F	17160	602240270
U 53	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 54	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 55	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 56	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 57	CMOS4001BP	IC:C MOS	QUAD 2-INPUT NOR GATE	17160	602240010
U 58	CMOS4556BP	IC:C MOS	DUAL 1-OF-4 DECODER	17160	602245560
U 59	CMOS4001BP	IC:C MOS	QUAD 2-INPUT NOR GATE	17160	602240010
U 60	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 61	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 62	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 63	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 64	TL082CP	IC:OP AMP	BI-FET DUAL	14558	639990190
U 65	CMOS4069UBP	IC:C MOS	HEX INVERTER	17160	602240690
U 66	CMOS4013BP	IC:C MOS	DUAL D-TYPE FLIP-FLOP	17160	602240130
U 67	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 68	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 69	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 70	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 71	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 72	CMOS4063BP	IC:C MOS	4-BIT MAGNITUDE COMP	17160	602240630
U 73	CMOS4069UBP	IC:C MOS	HEX INVERTER	17160	602240690
U 74	CMOS4510BP	IC:C MOS	BCD UP/DOWN COUNTER	17160	602245100
U 75	M5L5101LP1	IC:C MOS	256X4 STATIC RAM	17960	602110340
U 76	M5L5101LP1	IC:C MOS	256X4 STATIC RAM	17960	602110340
U 77	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 78	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 79	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 80	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 81	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 82	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 83	CMOS4069UBP	IC:C MOS	HEX INVERTER	17160	602240690
U 84	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 85	CMOS40175BP	IC:C MOS	QUAD D FLIP FLOP	17160	602240175
U 86	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 87	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 88	TC9135P	IC:C MOS	6CH TOUCH SW	17160	602020180
U 89	TC9135P	IC:C MOS	6CH TOUCH SW	17160	602020180
U 90	CMOS4001BP	IC:C MOS	QUAD 2-INPUT NOR GATE	17160	602240010
U 91	SN74LS148N	IC:TTL LS	8-TO-3 LINE ENCODER	14558	647414820
U 92	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 93	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 94	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 95	CMOS4013BP	IC:C MOS	DUAL D-TYPE FLIP-FLOP	17160	602240130
U 96	CMOS4013BP	IC:C MOS	DUAL D-TYPE FLIP-FLOP	17160	602240130
U 97	TC9135P	IC:C MOS	6CH TOUCH SW	17160	602020180
U 98	TC9135P	IC:C MOS	6CH TOUCH SW	17160	602020180
U 99	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 100	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 101	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 102	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 103	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 104	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 105	CMOS4013BP	IC:C MOS	DUAL D-TYPE FLIP-FLOP	17160	602240130
U 106	CMOS4069UBP	IC:C MOS	HEX INVERTER	17160	602240690
U 107	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U 108	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110

CONTROL ASSY DWG NO 4G204433

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
W1	4G470694	P8179B JUMPER LEAD	8P	ORGNL	918200590
W2	4G470694	P8179B JUMPER LEAD	8P	ORGNL	918200590
W3	4G470694	P8179B JUMPER LEAD	8P	ORGNL	918200590
W4	4G470694	P8179B JUMPER LEAD	8P	ORGNL	918200590
W5	4G470694	P8179B JUMPER LEAD	8P	ORGNL	918200590
W6	4G470695	P8179B JUMPER LEAD		ORGNL	918200600
W7	4G470695	P8179B JUMPER LEAD		ORGNL	918200600
W8	4G470695	P8179B JUMPER LEAD		ORGNL	918200600

COUNTER ASSY DWG NO 4G204434

REF	NO	PART NO	DESCRIPTION		MFR/DBR CODE-NO	
	1	4G633428-0L	LABEL:MOS CAUTION		ORGNL	263434280
C	1	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	2	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	3	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	4	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	6	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	7	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	8	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	9	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	11	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	12	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	13	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	14	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	16	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	17	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	18	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	19	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	21	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	22	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	23	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	24	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	26	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	27	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	29	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	31	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C	32	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	34	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	36	ECKF1H223ZF	C:FXD CER HI-K	22000PF +80-20% 500V	29897	822000034
C	37	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	38	ECQE1106KZ	C:FXD FLM	10UF 10% 100V	26550	825700010
C	39	ECEA1CS221	C:FXD AL ELECT	220UF +-20% 16V	29880	820018360
C	39	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	41	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	42	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	43	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	44	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	46	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	47	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	48	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	49	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	51	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	52	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C	53	ECEA1CS471	C:FXD AL ELECT	470UF +-20% 16V	29880	820018380
C	54	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C	56	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	63	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	64	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	66	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	67	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	68	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	69	ECEA1CS471	C:FXD AL ELECT	470UF +-20% 16V	29880	820018380
C	70	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	71	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	72	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	73	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	74	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C	75	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250

COUNTER ASSY DWG NO 46204434

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C 76	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 77	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 78	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 79	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 80	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 81	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 82	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 83	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 84	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 85	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 86	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 87	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 88	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 89	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 90	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 91	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 92	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 93	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 95	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 96	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 97	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 98	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 99	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 101	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 102	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 103	ECCF1H120K	C:FXD CER TC	12PF +-10% 50V SL	29897	822000410
C 105	ECEA1HS010	C:FXD AL ELECT	1UF +-20% 50V	29830	820018810
C 106	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C 107	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 2	MA150TA	DIODE:SI	100MA 35V	29269	773150010
E 1	3G401221-2	P8179B10 PC BOARD	COUNTER PB	ORGNL	973122120
J 1	UMQPJ196U	CONNECTOR:COAX	JACK 50 OHM	15355	912120310
L 1	ELEHR82MA	COIL;CHOKE	0.82UH 20%	29910	854002490
L 2	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L 3	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L 4	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L 5	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
P 13	M3115S13	CONNECTOR:PIN	15P L:300	16368	911001950
P 14	M3115S13	CONNECTOR:PIN	15P L:300	16368	911001950
Q *3	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q 1	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q 2	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q 3	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q 3	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 4	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
R 1	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 2	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 3	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 4	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 5	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 6	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 7	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 8	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 9	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 10	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 11	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 12	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 13	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 14	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 15	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100

COUNTER ASSY DWG NO 4G204434

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 16	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 17	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 18	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 19	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 21	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 22	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 23	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 24	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 26	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 27	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 28	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 29	ERD25TJ470V	R:FXD CARBON	47 OHM 5% 1/4W	29866	807320470
R 31	ERD25TJ822V	R:FXD CARBON	8.2K OHM 5% 1/4W	29866	807322820
R 32	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 33	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 34	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 36	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 37	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 38	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 39	ERD25TJ473V	R:FXD CARBON	47K OHM 5% 1/4W	29866	807323470
R 41	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 42	ERD25TJ152V	R:FXD CARBON	1.5K OHM 5% 1/4W	29866	807322150
R 43	ERD25TJ273V	R:FXD CARBON	27K OHM 5% 1/4W	29866	807323270
R 44	ERD25TJ272V	R:FXD CARBON	2.7K OHM 5% 1/4W	29866	807322270
R 46	ERC14GK106	R:FXD COMP	10M OHM 10% 1/4W	29861	803266100
R 47	ERD25TJ334V	R:FXD CARBON	330K OHM 5% 1/4W	29866	807324330
R 48	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 49	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 51	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 52	ERO25CKF1621	R:FXD MET FLM	1.62K OHM 1% 1/4W	29866	806621162
R 53	ERO25CKF2741	R:FXD MET FLM	2.74K OHM 1% 1/4W	29866	806621274
R 54	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 56	ERD25TJ821V	R:FXD CARBON	820 OHM 5% 1/4W	29866	807321820
R 57	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 61	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 63	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 64	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 66	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 67	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 68	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 69	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 70	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 71	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 72	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 73	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 74	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 75	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 76	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 77	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 78	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 79	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 80	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 81	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 82	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 83	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 84	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 85	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 86	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 87	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 88	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 89	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 90	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100

COUNTER ASSY DWG NO 4G204434

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R	91	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R	92	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R	95	ERD10TJ561	R:FXD CARBON	560 OHM 5% 1/8W	29866	807141560
R	96	ERD10TJ221	R:FXD CARBON	220 OHM 5% 1/8W	29866	807141220
U	1	SN74LS192N	IC:TTL LS	REVERS DECADE COUNTER	14558	647419220
U	2	SN74LS192N	IC:TTL LS	REVERS DECADE COUNTER	14558	647419220
U	3	SN74LS192N	IC:TTL LS	REVERS DECADE COUNTER	14558	647419220
U	4	SN74LS192N	IC:TTL LS	REVERS DECADE COUNTER	14558	647419220
U	5	SN74LS192N	IC:TTL LS	REVERS DECADE COUNTER	14558	647419220
U	6	SN74LS192N	IC:TTL LS	REVERS DECADE COUNTER	14558	647419220
U	7	TL064CN	IC:OP AMP	BI-FET QUAD LOW POWER	14558	639990480
U	8	CMOS4011BP	IC:C MOS	QUAD 2-INPUT NAND GATE	17160	602240110
U	9	SN74LS00N	IC:TTL LS	QUAD 2-INPUT NAND GATE	14558	640740020
U	10	SN74LS107N	IC:TTL LS	DUAL J-K FLIP-FLOP	14558	647410720
U	11	SN74LS00N	IC:TTL LS	QUAD 2-INPUT NAND GATE	14558	640740020
U	12	UPB551C	IC:TTL	HIGH SPEED PRE SCALER	12167	610055140
U	13	CMOS4075BP	IC:C MOS	TRIPLE 3-INPUT OR GATE	17160	602240750
U	14	UPD4066C	IC:C MOS	QUAD BILATERAL SWITCH	12167	610406610
U	15	SN74LS00N	IC:TTL LS	QUAD 2-INPUT NAND GATE	14558	640740020
U	16	SN74LS107N	IC:TTL LS	DUAL J-K FLIP-FLOP	14558	647410720
U	17	SN74LS74AN	IC:TTL LS	DUAL D-TYPE FLIP-FLOP	14558	640747420
U	19	SN74LS90N	IC:TTL LS	DECADE COUNTER	14558	640749020
U	20	SN74LS490N	IC:TTL LS	DUAL DECADE COUNTER	14558	647449020
U	21	SN74LS490N	IC:TTL LS	DUAL DECADE COUNTER	14558	647449020
Y	1	TC0704A	CRYSTAL:OSCILLATOR	10MHZ	13993	893004660

RF(O) ASSY DWG NO 4G204185

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C 1	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 2	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 3	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 4	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 5	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 6	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 7	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 8	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 9	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 10	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 11	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 12	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 13	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 14	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 15	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 16	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 17	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 18	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 19	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 20	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 21	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 22	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 23	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 24	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 25	ECEA1VS100	C:FXD AL ELECT	10UF +-20% 35V	29880	820018670
C 27	ECKY1H102WE	C:FXD CER HI-K	1000PF +200%-0% 50V	29897	823700250
C 28	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 29	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 2	MA150TA	DIODE:SI	100MA 35V	29269	773150010
FL 1	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 2	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 3	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 4	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 5	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 6	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 7	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 8	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 9	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 10	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 11	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 12	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 13	ZFN5103A	FL:FEED-THRU		13977	856302250
FL 14	ZFN5103A	FL:FEED-THRU		13977	856302250
L 1	4G430984-1	P8160A COIL	220MH	ORGNL	857409841
L 2	4G430984-1	P8160A COIL	220MH	ORGNL	857409841
L 3	4G430984-1	P8160A COIL	220MH	ORGNL	857409841
L 4	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 5	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 6	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 7	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 8	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 9	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 10	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 11	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 12	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 13	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L 14	CX1051COIL9V	SOLENOID	9V	10159	876001270
L 15	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
P 1	UMQP1-5	CONNECTOR:COAX	PLUG	15355	912120160
P 2	SS023	CONNECTOR:COAX	JACK 50 OHM	12573	912120320
P 3	M3110S17	CONNECTOR:PIN	10P L:700	16368	911002160
P 4	M3110S17	CONNECTOR:PIN	10P L:700	16368	911002160

RF(O) ASSY DWG NO 4G204185

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
Q	1	2SB774	TSTR:SI PNP	- -	29269	761774000
Q	2	2SD637	TSTR:SI NPN	PC:400MW	29269	763637000
Q	3	2SB642	TSTR:SI PNP	PC:400MW	29269	761642000
R	1	ERD25TJ121V	R:FXD CARBON	120 OHM 5% 1/4W	29866	807321120
R	2	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R	4	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R	5	ERO10CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/8W	29866	806658523
R	6	ERO10CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R	7	ERO10CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R	8	ERO10CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/8W	29866	806658523
R	9	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	10	ERD10TJ104	R:FXD CARBON	100K OHM 5% 1/8W	29866	807144100
R	11	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
S	1	AH1918	MICRO SW	3A-30V DC	29246	874000120
S	2	AH1918	MICRO SW	3A-30V DC	29246	874000120

RF(1) ASSY DWG NO 4G204186

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C	1	ECQP1302GZ	C:FXD FLM	3000PF 2% 100V	26550	825590280
C	2	ECQP1104GZ	C:FXD FLM	0.1UF 2% 100V	26550	825590190
C	3	ECCF1H020CC	C:FXD CER TC	2PF +-0.25PF 50V NPO	29897	822000441
C	4	ECCF1H330K	C:FXD CER TC	33PF +-10% 50V SL	29897	822000415
C	5	ECCF1H020CC	C:FXD CER TC	2PF +-0.25PF 50V NPO	29897	822000441
C	6	ECCF1H030CC	C:FXD CER TC	3PF +-0.25PF 50V NPO	29897	822000442
C	7	ECCF1H030CC	C:FXD CER TC	3PF +-0.25PF 50V NPO	29897	822000442
C	8	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	9	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	10	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	11	ECCF1H121K	C:FXD CER TC	120PF +-10% 50V SL	29897	822000422
C	13	ECCF1H030CC	C:FXD CER TC	3PF +-0.25PF 50V NPO	29897	822000442
C	14	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	15	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	16	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	17	ECCF1H181KC	C:FXD CER TC	180PF +-10% 50V NPO	29897	822000464
C	18	ECCF1H030CC	C:FXD CER TC	3PF +-0.25PF 50V NPO	29897	822000442
C	19	ECCF1H030CC	C:FXD CER TC	3PF +-0.25PF 50V NPO	29897	822000442
C	20	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	21	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	22	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	23	ECCF1H121KC	C:FXD CER TC	120PF +-10% 50V NPO	29897	822000462
C	24	ECCF1H020CC	C:FXD CER TC	2PF +-0.25PF 50V NPO	29897	822000441
C	25	ECCF1H020CC	C:FXD CER TC	2PF +-0.25PF 50V NPO	29897	822000441
C	26	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	27	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	28	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	29	ECEA1CS221	C:FXD AL ELECT	220UF +-20% 16V	29880	820018360
C	31	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	32	ECCF1H030CC	C:FXD CER TC	3PF +-0.25PF 50V NPO	29897	822000442
CR	1	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	2	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	3	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	4	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	5	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	6	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	7	MA322-MCI	DIODE:VAR CAP		29269	773322030
CR	8	MA322-MCI	DIODE:VAR CAP		29269	773322030
E	1	3G401222-1	P8179B PC BOARD	RF(1)	ORGNL	973122210
L	3	MC117AL2.5T	COIL:VAR	2.5T	13970	854902400
L	4	ELEH470KA	COIL:CHOKE	47UH 10%	29910	854002640
L	5	ELEH470KA	COIL:CHOKE	47UH 10%	29910	854002640
L	6	MC117AL3.5T	COIL:VAR	3.5T	13970	854902410
L	7	ELEH470KA	COIL:CHOKE	47UH 10%	29910	854002640
L	8	ELEH470KA	COIL:CHOKE	47UH 10%	29910	854002640
L	9	MC117AL3.5T	COIL:VAR	3.5T	13970	854902410
L	10	ELEH470KA	COIL:CHOKE	47UH 10%	29910	854002640
L	11	ELEH470KA	COIL:CHOKE	47UH 10%	29910	854002640
L	12	MC117AL5.5T	COIL:VAR	5.5T	13970	854902420
L	13	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L	15	ELEH1R0MA	COIL CHOKE	1UH 20%	29910	854002610
Q	*1	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*10	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*11	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*12	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*2	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*3	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*4	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*5	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*6	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*7	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110

RF(1) ASSY DWG NO 4G204186

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
Q	*8	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*9	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	1	2SC2671-H23	TSTR:SI NPN	SELECT 4G461719	10003	764267123
Q	2	2SC2671-H23	TSTR:SI NPN	SELECT 4G461719	10003	764267123
Q	3	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	4	2SC2671-H23	TSTR:SI NPN	SELECT 4G461719	10003	764267123
Q	5	2SC2671-H23	TSTR:SI NPN	SELECT 4G461719	10003	764267123
Q	6	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	7	2SC2671-H49	TSTR:SI NPN	SELECT 4G461718	10003	764267149
Q	8	2SC2671-H49	TSTR:SI NPN	SELECT 4G461718	10003	764267149
Q	9	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	10	2SC2671-H49	TSTR:SI NPN	SELECT 4G461718	10003	764267149
Q	11	2SC2671-H49	TSTR:SI NPN	SELECT 4G461718	10003	764267149
Q	12	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	13	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
R	1	ERD25TJ105V	R:FXD CARBON	1M OHM 5% 1/4W	29866	807325100
R	2	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	3	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	4	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R	5	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R	6	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	7	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	8	ERD10TJ682	R:FXD CARBON	6.8K OHM 5% 1/8W	29866	807142680
R	9	ERD10TJ332	R:FXD CARBON	3.3K OHM 5% 1/8W	29866	807142330
R	10	ERD10TJ152	R:FXD CARBON	1.5K OHM 5% 1/8W	29866	807142150
R	11	ERD10TJ471	R:FXD CARBON	470 OHM 5% 1/8W	29866	807141470
R	12	ERD10TJ121	R:FXD CARBON	120 OHM 5% 1/8W	29866	807141120
R	13	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R	14	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	15	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	16	ERD10TJ101	R:FXD CARBON	100 OHM 5% 1/8W	29866	807141100
R	17	ERD10TJ101	R:FXD CARBON	100 OHM 5% 1/8W	29866	807141100
R	18	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	19	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	20	ERD10TJ682	R:FXD CARBON	6.8K OHM 5% 1/8W	29866	807142680
R	21	ERD10TJ332	R:FXD CARBON	3.3K OHM 5% 1/8W	29866	807142330
R	22	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R	23	ERD10TJ102	R:FXD CARBON	1K OHM 5% 1/8W	29866	807142100
R	24	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R	25	ERD10TJ152	R:FXD CARBON	1.5K OHM 5% 1/8W	29866	807142150
R	26	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	27	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	28	ERD10TJ101	R:FXD CARBON	100 OHM 5% 1/8W	29866	807141100
R	29	ERD10TJ101	R:FXD CARBON	100 OHM 5% 1/8W	29866	807141100
R	30	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	31	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	32	ERD10TJ682	R:FXD CARBON	6.8K OHM 5% 1/8W	29866	807142680
R	33	ERD10TJ332	R:FXD CARBON	3.3K OHM 5% 1/8W	29866	807142330
R	34	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R	35	ERD10TJ152	R:FXD CARBON	1.5K OHM 5% 1/8W	29866	807142150
R	36	ERD10TJ391	R:FXD CARBON	390 OHM 5% 1/8W	29866	807141390
R	37	ERD10TJ102	R:FXD CARBON	1K OHM 5% 1/8W	29866	807142100
R	38	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	39	ERD10TJ270	R:FXD CARBON	27 OHM 5% 1/8W	29866	807140270
R	40	ERD10TJ101	R:FXD CARBON	100 OHM 5% 1/8W	29866	807141100
R	41	ERD10TJ101	R:FXD CARBON	100 OHM 5% 1/8W	29866	807141100
R	42	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	43	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R	44	ERD10TJ682	R:FXD CARBON	6.8K OHM 5% 1/8W	29866	807142680
R	45	ERD10TJ332	R:FXD CARBON	3.3K OHM 5% 1/8W	29866	807142330
R	46	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R	47	ERD10TJ122	R:FXD CARBON	1.2K OHM 5% 1/8W	29866	807142120
R	48	ERD10TJ471	R:FXD CARBON	470 OHM 5% 1/8W	29866	807141470
R	49	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R	50	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220

RF(1) ASSY DWG NO 4G204186

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 51	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R 52	ERD10TJ681	R:FXD CARBON	680 OHM 5% 1/8W	29866	807141680
R 53	ERD10TJ154	R:FXD CARBON	150K OHM 5% 1/8W	29866	807144150
R 54	ERD10TJ182	R:FXD CARBON	1.8K OHM 5% 1/8W	29866	807142180
1,2 14	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500

RF(2) ASSY DWG NO 4G204187

REF NO		PART NO	DESCRIPTION		MFR/DBR	CODE-NO
	2	4G670020-0DB	P8180G HEAT SINK		ORGNL	267400200
C	1	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	2	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	3	ECCF1H150K	C:FXD CER TC	15PF +-10% 50V SL	29897	822000411
C	4	ECQP1302GZ	C:FXD FLM	3000PF 2% 100V	26550	825590280
C	5	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	6	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	7	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	8	ECCF1H220K	C:FXD CER TC	22PF +-10% 50V SL	29897	822000413
C	9	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	10	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	11	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	13	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	14	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	15	ECCF1H470K	C:FXD CER TC	47PF +-10% 50V SL	29897	822000417
C	16	ECCF1H100F	C:FXD CER TC	10PF +-1.0PF 50V SL	29897	822000409
C	17	ECCF1H050D	C:FXD CER TC	5PF +-0.5PF 50V SL	29897	822000404
C	18	ECCF1H270K	C:FXD CER TC	27PF +-10% 50V SL	29897	822000414
C	19	ECCF1H180K	C:FXD CER TC	18PF +-10% 50V SL	29897	822000412
C	20	ECCF1H180K	C:FXD CER TC	18PF +-10% 50V SL	29897	822000412
C	21	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	22	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	23	ECCF1H330K	C:FXD CER TC	33PF +-10% 50V SL	29897	822000415
C	24	ECCF1H390K	C:FXD CER TC	39PF +-10% 50V SL	29897	822000416
C	25	ECCF1H560K	C:FXD CER TC	56PF +-10% 50V SL	29897	822000418
C	26	ECCF1H100F	C:FXD CER TC	10PF +-1.0PF 50V SL	29897	822000409
C	27	ECCF1H470K	C:FXD CER TC	47PF +-10% 50V SL	29897	822000417
C	28	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	29	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	30	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	31	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	32	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	33	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	34	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	35	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	36	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	37	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	38	ECCF1H680K	C:FXD CER TC	68PF +-10% 50V SL	29897	822000419
C	39	ECCF1H680K	C:FXD CER TC	68PF +-10% 50V SL	29897	822000419
C	40	ECCF1H820K	C:FXD CER TC	82PF +-10% 50V SL	29897	822000420
C	41	ECCF1H180K	C:FXD CER TC	18PF +-10% 50V SL	29897	822000412
C	42	ECCF1H680K	C:FXD CER TC	68PF +-10% 50V SL	29897	822000419
C	43	ECCF1H121K	C:FXD CER TC	120PF +-10% 50V SL	29897	822000422
C	44	ECCF1H820K	C:FXD CER TC	82PF +-10% 50V SL	29897	822000420
C	45	ECCF1H151K	C:FXD CER TC	150PF +-10% 50V SL	29897	822000423
C	46	ECCF1H270K	C:FXD CER TC	27PF +-10% 50V SL	29897	822000414
C	47	ECCF1H101K	C:FXD CER TC	100PF +-10% 50V SL	29897	822000421
C	48	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	49	ECCF1H221K	C:FXD CER TC	220PF +-10% 50V SL	29897	822000425
C	50	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	51	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	52	ECCF1H221K	C:FXD CER TC	220PF +-10% 50V SL	29897	822000425
C	53	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C	54	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C	55	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	56	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	57	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C	58	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	60	ECCF1H270K	C:FXD CER TC	27PF +-10% 50V SL	29897	822000414
C	61	ECSZ25HS4R7	C:FXD TA ELECT	4.7UF 20% 25V	29880	820745370
C	62	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	63	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C	65	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	66	ECCF1H270K	C:FXD CER TC	27PF +-10% 50V SL	29897	822000414

RF(2) ASSY DWG NO 4G204187

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C 68	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 69	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C 70	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C 71	ECCF1H150K	C:FXD CER TC	15PF +-10% 50V SL	29897	822000411
C 72	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C 73	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 74	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C 75	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 76	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C 77	ECSZ25HS4R7	C:FXD TA ELECT	4.7UF 20% 25V	29880	820745370
C 78	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 79	ECKF1H472MD	C:FXD CER HI-K	4700PF +-20% 50V	29897	822000023
C 80	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C 81	ECCF1H180K	C:FXD CER TC	18PF +-10% 50V SL	29897	822000412
C 82	ECCF1H470K	C:FXD CER TC	47PF +-10% 50V SL	29897	822000417
C 83	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C 84	ECQM1H223KZ	C:FXD FLM	0.022UF 10% 50V	26550	825132240
C 85	ECCF1H050D	C:FXD CER TC	5PF +-0.5PF 50V SL	29897	822000404
C 86	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 87	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 88	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 89	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 90	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 92	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C 93	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C 94	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C 95	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 96	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C 98	ECCF1H151K	C:FXD CER TC	150PF +-10% 50V SL	29897	822000423
C 99	ECCF1H151K	C:FXD CER TC	150PF +-10% 50V SL	29897	822000423
C 100	ECCF1H010C	C:FXD CER TC	1PF +-0.25PF 50V SL	29897	822000400
C 101	ECCF1H150K	C:FXD CER TC	15PF +-10% 50V SL	29897	822000411
C 102	ECCF1H121K	C:FXD CER TC	120PF +-10% 50V SL	29897	822000422
C 104	ECEA1CS221	C:FXD AL ELECT	220UF +-20% 16V	29880	820018360
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 2	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 3	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 4	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 5	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 6	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 7	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 8	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 9	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 10	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 11	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 12	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 13	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 14	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 15	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 16	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR 17	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 18	1SS97	DIODE:SI	35MA 10V	12167	775002180
CR 19	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 20	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 21	1SS97	DIODE:SI	35MA 10V	12167	775002180
CR 22	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 23	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 24	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 25	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 26	1SV80	DIODE:PIN	50MA 30V	12167	775002300
E 1	2G401233-1	P8179B PC BOARD	RF(2)	ORGNL	972123310
J 1	M3315S40	CONNECTOR:PIN	15P SOCKET	16368	911002360
J 2	M3315S40	CONNECTOR:PIN	15P SOCKET	16368	911002360

RF(2) ASSY DWG NO 4G204187

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
K	1	AG6019	REED RELAY	5V 230MA 5VDC 1PST	29246	876001190
K	2	AE5649	REED RELAY	5V 1A-20VDC 1PDT NR	29246	876000800
K	3	AE5649	REED RELAY	5V 1A-20VDC 1PDT NR	29246	876000800
K	4	AE5649	REED RELAY	5V 1A-20VDC 1PDT NR	29246	876000800
K	5	AE5649	REED RELAY	5V 1A-20VDC 1PDT NR	29246	876000800
L	1	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	2	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	3	4G431310	P8179B COIL	2T	ORGNL	857413100
L	4	4G431311	P8179B COIL	1T	ORGNL	857413110
L	5	4G431310	P8179B COIL	2T	ORGNL	857413100
L	6	4G431309	P8179B COIL	3T	ORGNL	857413090
L	7	4G431309	P8179B COIL	3T	ORGNL	857413090
L	8	4G431308	P8179B COIL	5T	ORGNL	857413080
L	9	4G431308	P8179B COIL	5T	ORGNL	857413080
L	10	4G431307	P8179B COIL	8T	ORGNL	857413070
L	11	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	12	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	13	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	14	ELEHR47MA	COIL:CHOKE	0.47UH 20%	29910	854002590
L	16	4G431305	P8179B COIL	5T	ORGNL	857413050
L	17	4G431303	P8179B COIL	2.15MH 10%	ORGNL	857413030
L	18	TP0206L1R5K	COIL:CHOKE	1.5UH 10%	13977	858529150
L	19	4G431312	P8179B COIL	3T	ORGNL	857413120
L	20	3L0004	FERRITE CORE		14419	897000170
L	21	OP331HL82	FERRITE CORE		14419	897000250
L	22	OP331HL82	FERRITE CORE		14419	897000250
L	23	ELEHR27MA	COIL:CHOKE	0.27UH 20%	29910	854002570
Q	*11	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*12	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*13	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*7	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	1	2SA838	TSTR:SI PNP	PC:250MW FT:300MHZ	29269	760838000
Q	2	2SA838	TSTR:SI PNP	PC:250MW FT:300MHZ	29269	760838000
Q	3	2SA838	TSTR:SI PNP	PC:250MW FT:300MHZ	29269	760838000
Q	4	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	5	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	6	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	7	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	8	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	9	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	10	2SA838	TSTR:SI PNP	PC:250MW FT:300MHZ	29269	760838000
Q	11	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	12	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	13	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	14	2SC1252N	TSTR:SI NPN	PC:800MW FT:1700MHZ	12167	764125210
Q	15	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	16	2SC2684	TSTR:SI NPN	PC:10W FT:4000MHZ	29269	764268400
Q	17	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	18	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	19	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	20	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	21	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	22	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	23	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	24	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
R	1	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	2	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	3	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	4	ERO25CKF3321	R:FXD MET FLM	3.32K OHM 1% 1/4W	29866	806621332
R	5	ERO25CKF2431	R:FXD MET FLM	2.43K OHM 1% 1/4W	29866	806621243
R	6	ERD25TJ392V	R:FXD CARBON	3.9K OHM 5% 1/4W	29866	807322390
R	7	ERD25TJ272V	R:FXD CARBON	2.7K OHM 5% 1/4W	29866	807322270
R	8	ERD25TJ152V	R:FXD CARBON	1.5K OHM 5% 1/4W	29866	807322150
R	9	ERO25CKF3161	R:FXD MET FLM	3.16K OHM 1% 1/4W	29866	806621316
R	10	ERO25CKF3161	R:FXD MET FLM	3.16K OHM 1% 1/4W	29866	806621316

RF(2) ASSY DWG NO 4G204187

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 11	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 12	TM64K2PV2-53	R:VAR CERMET	5K OHM 20%	13750	819905390
R 13	TM64K2PV2-23	R:VAR CERMET	2K OHM 20%	13750	819905360
R 14	TM64K2PV2-53	R:VAR CERMET	5K OHM 20%	13750	819905390
R 15	TM64K2PV2-13	R:VAR CERMET	1K OHM 20%	13750	819905380
R 16	ERD25TJ153V	R:FXD CARBON	15K OHM 5% 1/4W	29866	807323150
R 17	ERD25TJ153V	R:FXD CARBON	15K OHM 5% 1/4W	29866	807323150
R 18	ERD25TJ153V	R:FXD CARBON	15K OHM 5% 1/4W	29866	807323150
R 19	ERD25TJ153V	R:FXD CARBON	15K OHM 5% 1/4W	29866	807323150
R 20	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 21	ERD25TJ272V	R:FXD CARBON	2.7K OHM 5% 1/4W	29866	807322270
R 22	ERD25TJ152V	R:FXD CARBON	1.5K OHM 5% 1/4W	29866	807322150
R 23	ERD25TJ152V	R:FXD CARBON	1.5K OHM 5% 1/4W	29866	807322150
R 24	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 25	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 26	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 27	ERD25TJ822V	R:FXD CARBON	8.2K OHM 5% 1/4W	29866	807322820
R 28	ERD25TJ562V	R:FXD CARBON	5.6K OHM 5% 1/4W	29866	807322560
R 29	ERD25TJ751V	R:FXD CARBON	750 OHM 5% 1/4W	29866	807321750
R 30	ERD10TJ100	R:FXD CARBON	10 OHM 5% 1/8W	29866	807140100
R 31	ERD25TJ561V	R:FXD CARBON	560 OHM 5% 1/4W	29866	807321560
R 32	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 33	ERD25CKF82R5	R:FXD MET FLM	82.5 OHM 1% 1/4W	29866	806628825
R 34	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 35	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 36	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 37	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 38	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 39	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 40	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 41	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 42	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 43	ERD25TJ151V	R:FXD CARBON	150 OHM 5% 1/4W	29866	807321150
R 44	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 45	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 46	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 47	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 48	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 49	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 50	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 51	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 52	ERD25TJ122V	R:FXD CARBON	1.2K OHM 5% 1/4W	29866	807322120
R 53	ERD25TJ470V	R:FXD CARBON	47 OHM 5% 1/4W	29866	807320470
R 54	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 55	ERD25TJ470V	R:FXD CARBON	47 OHM 5% 1/4W	29866	807320470
R 56	ERD25CKF1022	R:FXD MET FLM	10.2K OHM 1% 1/4W	29866	806622102
R 57	ERD25CKF1402	R:FXD MET FLM	14K OHM 1% 1/4W	29866	806622140
R 59	ERD25CKF1621	R:FXD MET FLM	1.62K OHM 1% 1/4W	29866	806621162
R 61	ERD25TJ560V	R:FXD CARBON	56 OHM 5% 1/4W	29866	807320560
R 61	ERD25CKF3240	R:FXD MET FLM	324 OHM 1% 1/4W	29866	806620324
R 62	ERD25CKF5490	R:FXD MET FLM	549 OHM 1% 1/4W	29866	806620549
R 63	ERD25CKF33R2	R:FXD MET FLM	33.2 OHM 1% 1/4W	29866	806628332
R 64	ERD25CKF4220	R:FXD MET FLM	422 OHM 1% 1/4W	29866	806620422
R 65	ERD25TJ120V	R:FXD CARBON	12 OHM 5% 1/4W	29866	807320120
R 68	ERG1ANJ181	R:FXD MET OXD	180 OHM 5% 1W	29861	808531180
R 69	ERD25TJ182V	R:FXD CARBON	1.8K OHM 5% 1/4W	29866	807322180
R 70	ERD25TJ390V	R:FXD CARBON	39 OHM 5% 1/4W	29866	807320390
R 70	ERD25TJ560V	R:FXD CARBON	56 OHM 5% 1/4W	29866	807320560
R 72	ERD25CKF12R7	R:FXD MET FLM	12.7 OHM 1% 1/4W	29866	806628127
R 73	ERD25TJ681V	R:FXD CARBON	680 OHM 5% 1/4W	29866	807321680
R 74	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 75	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 76	ERD25CKF4990	R:FXD MET FLM	499 OHM 1% 1/4W	29866	806620499

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REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 77	ERD25TJ221V	R:FXD CARBON	220 OHM 5% 1/4W	29866	807321220
R 78	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 79	ERD25TJ154V	R:FXD CARBON	150K OHM 5% 1/4W	29866	807324150
R 80	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 81	ERD25TJ224V	R:FXD CARBON	220K OHM 5% 1/4W	29866	807324220
R 82	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 83	ERD25TJ473V	R:FXD CARBON	47K OHM 5% 1/4W	29866	807323470
R 84	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 85	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 86	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 87	ERO25CKF30R1	R:FXD MET FLM	30.1 OHM 1% 1/4W	29866	806628301
R 88	ERO25CKF49R9	R:FXD MET FLM	49.9 OHM 1% 1/4W	29866	806628499
R 89	ERO25CKF12R1	R:FXD MET FLM	12.1 OHM 1% 1/4W	29866	806628121
R 90	ERO25CKF12R1	R:FXD MET FLM	12.1 OHM 1% 1/4W	29866	806628121
R 91	ERD10TJ391	R:FXD CARBON	390 OHM 5% 1/8W	29866	807141390
R 92	ERO10CKF75R0	R:FXD MET FLM	75.0 OHM 1% 1/8W	29866	806650075
R 93	ERO10CKF29R4	R:FXD MET FLM	29.4 OHM 1% 1/8W	29866	806658294
R 94	ERO25CKF13R0	R:FXD MET FLM	13 OHM 1% 1/4W	29866	806620013
R 95	ERO25CKF4640	R:FXD MET FLM	464 OHM 1% 1/4W	29866	806620464
R 96	ERO25CKF82R5	R:FXD MET FLM	82.5 OHM 1% 1/4W	29866	806628825
R 97	ERO25CKF1370	R:FXD MET FLM	137 OHM 1% 1/4W	29866	806620137
R 98	ERO25CKF2430	R:FXD MET FLM	243 OHM 1% 1/4W	29866	806620243
R 99	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 100	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 101	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 102	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 103	ERO25CKF3320	R:FXD MET FLM	332 OHM 1% 1/4W	29866	806620332
R 104	ERD25TJ271V	R:FXD CARBON	270 OHM 5% 1/4W	29866	807321270
R 105	ERO25CKF12R7	R:FXD MET FLM	12.7 OHM 1% 1/4W	29866	806628127
R 106	ERG1ANJ220	R:FXD MET OXD	22 OHM 5% 1W	29861	808530220
R 107	ERO25CKF1021	R:FXD MET FLM	1.02K OHM 1% 1/4W	29866	806621102
R 108	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 109	ERD10TJ100	R:FXD CARBON	10 OHM 5% 1/8W	29866	807140100
R 110	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 110	ERD25TJ4R7V	R:FXD CARBON	4.7 OHM 5% 1/4W	29866	807328470
U 1	NE5534AF	IC:OP AMP	LOW NOISE	14558	639990770
U 2	HD10231	IC:ECL	DUAL D MASTER-SLAVE F-F	14458	659990100

RF(3) ASSY DWG NO 4G204188

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C	*83	ECCF1H680K	C:FXD CER TC	68PF +-10% 50V SL	29897	822000419
C	1	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	2	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	3	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	4	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	5	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	6	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	7	ECCF1H820K	C:FXD CER TC	82PF +-10% 50V SL	29897	822000420
C	8	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	9	ECCF1H820K	C:FXD CER TC	82PF +-10% 50V SL	29897	822000420
C	10	ECCF1H680K	C:FXD CER TC	68PF +-10% 50V SL	29897	822000419
C	11	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	12	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	13	ECCF1H390K	C:FXD CER TC	39PF +-10% 50V SL	29897	822000416
C	14	ECCF1H560K	C:FXD CER TC	56PF +-10% 50V SL	29897	822000418
C	15	ECCF1H390K	C:FXD CER TC	39PF +-10% 50V SL	29897	822000416
C	16	ECCF1H150K	C:FXD CER TC	15PF +-10% 50V SL	29897	822000411
C	17	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	18	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	19	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C	20	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	21	ECCF1H391K	C:FXD CER TC	390PF +-10% 50V SL	29897	822000428
C	22	ECKF1H561KB	C:FXD CER HI-K	560PF +-10% 50V	29897	822000006
C	23	ECCF1H391K	C:FXD CER TC	390PF +-10% 50V SL	29897	822000428
C	24	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	25	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	26	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	27	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	28	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	29	ECSF16E47	C:FXD TA ELECT	47UF 20% 16V	29880	820701180
C	30	ECEB1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820088350
C	31	ECKF1H681KB	C:FXD CER HI-K	680PF +-10% 50V	29897	822000007
C	32	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	33	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	34	ECKF1H681KB	C:FXD CER HI-K	680PF +-10% 50V	29897	822000007
C	35	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C	36	ECCF1H330K	C:FXD CER TC	33PF +-10% 50V SL	29897	822000415
C	37	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	38	ECCF1H020C	C:FXD CER TC	2PF +-0.25PF 50V SL	29897	822000401
C	39	ECCF1H221K	C:FXD CER TC	220PF +-10% 50V SL	29897	822000425
C	40	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	41	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C	42	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C	43	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	44	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	45	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	45	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	46	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	46	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	47	ECKF1H222MD	C:FXD CER HI-K	2200PF +-20% 50V	29897	822000021
C	48	ECKF1H332MD	C:FXD CER HI-K	3300PF +-20% 50V	29897	822000022
C	49	ECKF1H222MD	C:FXD CER HI-K	2200PF +-20% 50V	29897	822000021
C	50	ECSF10E10	C:FXD TA ELECT	10UF 20% 10V	29880	820742160
C	51	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	52	ECCF1H560K	C:FXD CER TC	56PF +-10% 50V SL	29897	822000418
C	53	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C	54	ECCF1H820K	C:FXD CER TC	82PF +-10% 50V SL	29897	822000420
C	55	ECCF1H560K	C:FXD CER TC	56PF +-10% 50V SL	29897	822000418
C	56	ECCF1H151K	C:FXD CER TC	150PF +-10% 50V SL	29897	822000423
C	57	ECCF1H221K	C:FXD CER TC	220PF +-10% 50V SL	29897	822000425
C	58	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	59	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	61	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	62	ECKF1H681KB	C:FXD CER HI-K	680PF +-10% 50V	29897	822000007

RF(3) ASSY DWG NO 4G204188

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C	64	ECSF16E47	C:FXD TA ELECT	47UF 20% 16V	29880	820701180
C	65	ECCF1H271K	C:FXD CER TC	270PF +-10% 50V SL	29897	822000426
C	66	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C	67	ECKF1H681KB	C:FXD CER HI-K	680PF +-10% 50V	29897	822000007
C	68	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C	69	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C	70	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	71	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C	72	ECCF1H471K	C:FXD CER TC	470PF +-10% 50V SL	29897	822000429
C	73	ECSF10E10	C:FXD TA ELECT	10UF 20% 10V	29880	820742160
C	74	ECSF16E22	C:FXD TA ELECT	22UF 20% 16V	29880	820701120
C	75	ECSF10E10	C:FXD TA ELECT	10UF 20% 10V	29880	820742160
C	76	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C	76	ECSF10E10	C:FXD TA ELECT	10UF 20% 10V	29880	820742160
C	77	ECCF1H151K	C:FXD CER TC	150PF +-10% 50V SL	29897	822000423
C	78	ECSF10E10	C:FXD TA ELECT	10UF 20% 10V	29880	820742160
C	78	ECV1ZW20X53T	C:VAR CER	20PF	29456	834100231
C	79	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C	80	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C	81	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C	82	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C	83	ECCF1H330K	C:FXD CER TC	33PF +-10% 50V SL	29897	822000415
C	84	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	85	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	86	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	87	SR305E105Z	C:FXD CER MULTILAYER	1UF +-1% 25V	12956	823035360
C	88	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	89	ECKF1H103MD	C:FXD CER HI-K	10000PF +-20% 50V	29897	822000025
C	91	ECQM1H102KZ	C:FXD FLM	1000PF 10% 50V	26550	825121040
C	92	4G440490	P8179B C:FXD CHIP	1000PF 10% 50V	ORGNL	823035370
C	93	ECKF1H471KB	C:FXD CER HI-K	470PF +-10% 50V	29897	822000005
CR	2	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	3	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	4	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	5	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	6	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	7	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	8	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	9	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	10	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	11	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR	12	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	13	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	14	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	15	1SS99	DIODE:SI	30MA 5V UHF MIXER	12167	775002310
CR	16	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR	17	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR	18	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR	19	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR	20	ND487C1-3P	DIODE:SI	75MW QUAD DOUBLE B M	12167	775002320
CR	21	1SV80	DIODE:PIN	50MA 30V	12167	775002300
CR	22	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	23	1SV80	DIODE:PIN	50MA 30V	12167	775002300
E	1	2G401234-1	P8179B PC BOARD	RF(3)	ORGNL	972123410
L	1	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L	2	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L	3	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L	4	ELEH221KA	COIL:FXD	220UH 10%	29910	854002480
L	5	TP0206LR47K	COIL:CHOKE	0.47UH 10%	13977	858528470
L	6	ELEHR39MA	COIL CHOKE	0.39UH 20%	29910	854002580

RF(3) ASSY DWG NO 4G204188

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
L	8	ELEHR68MA	COIL CHOKE	0.68UH 20%	29910	854002600
L	9	ELEHR68MA	COIL CHOKE	0.68UH 20%	29910	854002600
L	10	TP0206LR15K	COIL:CHOKE	0.15UH 10%	13977	858528150
L	11	TP0206LR15K	COIL:CHOKE	0.15UH 10%	13977	858528150
L	12	TP0206LR15K	COIL:CHOKE	0.15UH 10%	13977	858528150
L	13	TP0206LR15K	COIL:CHOKE	0.15UH 10%	13977	858528150
L	14	ELEHZ21KA	COIL:FXD	220UH 10%	29910	854002480
L	15	ELEHR82MA	COIL;CHOKE	0.82UH 20%	29910	854002490
L	16	ELEH1R0MA	COIL CHOKE	1UH 20%	29910	854002610
L	17	ELEHR82MA	COIL;CHOKE	0.82UH 20%	29910	854002490
L	18	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	19	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	20	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	21	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	22	4G431306	P8179B COIL	5T	ORGNL	857413060
L	23	4G431306	P8179B COIL	5T	ORGNL	857413060
L	24	ELEH1R8MA	COIL CHOKE	1.8UH 20%	29910	854002620
L	25	ELEH1R8MA	COIL CHOKE	1.8UH 20%	29910	854002620
L	26	ELEH100KA	COIL;CHOKE	10UH 10%	29910	854002500
L	27	ELEHR27MA	COIL;CHOKE	0.27UH 20%	29910	854002570
L	28	ELEHZ21KA	COIL:FXD	220UH 10%	29910	854002480
L	29	ELEHZ21KA	COIL:FXD	220UH 10%	29910	854002480
L	30	ELEH6R8MA	COIL CHOKE	6.8UH 20%	29910	854002630
L	32	ELEHZ21KA	COIL:FXD	220UH 10%	29910	854002480
L	33	ELEHR27MA	COIL:CHOKE	0.27UH 20%	29910	854002570
L	33	ELEHZ21KA	COIL:FXD	220UH 10%	29910	854002480
P	1	M3115P01	CONNECTOR:PIN	15P	16368	911002030
P	2	M3115P01	CONNECTOR:PIN	15P	16368	911002030
Q	*4	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*5	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	*8	2SC2671-H#	TSTR:SI NPN	PC:250MW FT:2500MHZ	29256	764267110
Q	1	2SB774	TSTR:SI PNP	- -	29269	761774000
Q	2	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	3	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	4	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	5	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	6	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	7	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	8	2SC2671-HH	TSTR:SI NPN	PC:250MW FT:2500MHZ	10003	764267111
Q	9	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	10	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	11	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	12	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	13	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	14	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	15	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	16	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	17	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	18	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	19	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q	20	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	21	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	22	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	23	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	24	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	25	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	26	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	27	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	28	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	29	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	30	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120

RF(3) ASSY DWG NO 4G204188

REF NO	PART NO	DESCRIPTION		MFR/DBR CODE-NO	
Q 31	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 32	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 33	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 34	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 35	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 36	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 37	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 38	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 39	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 40	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 41	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 42	2SC1215	TSTR:SI NPN	PC:200MW FT:1200MHZ	29269	764121500
Q 43	2SA777-RS	TSTR:SI PNP	PC:750MW FT:120MHZ	29269	760777010
R 1	ER025CKF4752	R:FXD MET FLM	47.5K OHM 1% 1/4W	29866	806622475
R 2	ER025CKF1003	R:FXD MET FLM	100K OHM 1% 1/4W	29866	806623100
R 5	ERD25TJ183V	R:FXD CARBON	18K OHM 5% 1/4W	29866	807323180
R 6	ER025CKF1691	R:FXD MET FLM	1.69K OHM 1% 1/4W	29866	806621169
R 7	ER025CKF3400	R:FXD MET FLM	340 OHM 1% 1/4W	29866	806620340
R 8	ER025CKF6810	R:FXD MET FLM	681 OHM 1% 1/4W	29866	806620681
R 9	ER025CKF3401	R:FXD MET FLM	3.40K OHM 1% 1/4W	29866	806621340
R 10	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 11	ER025CKF3921	R:FXD MET FLM	3.92K OHM 1% 1/4W	29866	806621392
R 12	ERD25TJ223V	R:FXD CARBON	22K OHM 5% 1/4W	29866	807323220
R 13	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 14	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 15	TM64K2PV2-14	R:VAR CERMET	10K OHM 20%	13750	819905340
R 16	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 17	ERD25TJ223V	R:FXD CARBON	22K OHM 5% 1/4W	29866	807323220
R 18	ERD25TJ682V	R:FXD CARBON	6.8K OHM 5% 1/4W	29866	807322680
R 19	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 20	ERD25TJ223V	R:FXD CARBON	22K OHM 5% 1/4W	29866	807323220
R 21	ERD10TJ221	R:FXD CARBON	220 OHM 5% 1/8W	29866	807141220
R 22	ERD10TJ472	R:FXD CARBON	4.7K OHM 5% 1/8W	29866	807142470
R 23	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 24	ERD10TJ680	R:FXD CARBON	68 OHM 5% 1/8W	29866	807140680
R 25	ERD10TJ221	R:FXD CARBON	220 OHM 5% 1/8W	29866	807141220
R 26	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 27	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 28	ER025CKF1911	R:FXD MET FLM	1.91K OHM 1% 1/4W	29866	806621191
R 29	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 30	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 31	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 32	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 33	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 34	ERD25TJ221V	R:FXD CARBON	220 OHM 5% 1/4W	29866	807321220
R 35	ERD25TJ221V	R:FXD CARBON	220 OHM 5% 1/4W	29866	807321220
R 36	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 37	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 38	ERD25TJ470V	R:FXD CARBON	47 OHM 5% 1/4W	29866	807320470
R 39	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 40	ERD10TJ180	R:FXD CARBON	18 OHM 5% 1/8W	29866	807140180
R 41	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 42	ERD25TJ470V	R:FXD CARBON	47 OHM 5% 1/4W	29866	807320470
R 43	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 44	ERD25TJ222V	R:FXD CARBON	2.2K OHM 5% 1/4W	29866	807322220
R 45	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 46	ERD10TJ333	R:FXD CARBON	33K OHM 5% 1/8W	29866	807143330
R 47	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 48	ERD10TJ100	R:FXD CARBON	10 OHM 5% 1/8W	29866	807140100
R 49	ERD10TJ821	R:FXD CARBON	820 OHM 5% 1/8W	29866	807141820
R 50	ERD10TJ472	R:FXD CARBON	4.7K OHM 5% 1/8W	29866	807142470
R 51	ERD10TJ561	R:FXD CARBON	560 OHM 5% 1/8W	29866	807141560

RF(3) ASSY DWG NO 4G204188

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 52	ERD10TJ123	R:FXD CARBON	12K OHM 5% 1/8W	29866	807143120
R 53	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 54	ERD10TJ472	R:FXD CARBON	4.7K OHM 5% 1/8W	29866	807142470
R 55	ERD25TJ221V	R:FXD CARBON	220 OHM 5% 1/4W	29866	807321220
R 56	ERO25CKF1001	R:FXD MET FLM	1K OHM 1% 1/4W	29866	806621100
R 57	ERO25CKF1001	R:FXD MET FLM	1K OHM 1% 1/4W	29866	806621100
R 58	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 59	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 60	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 61	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 62	ERD10TJ182	R:FXD CARBON	1.8K OHM 5% 1/8W	29866	807142180
R 62	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 63	ERD10TJ182	R:FXD CARBON	1.8K OHM 5% 1/8W	29866	807142180
R 64	ERD10TJ681	R:FXD CARBON	680 OHM 5% 1/8W	29866	807141680
R 65	ERD10TJ100	R:FXD CARBON	10 OHM 5% 1/8W	29866	807140100
R 66	ERD25TJ221V	R:FXD CARBON	220 OHM 5% 1/4W	29866	807321220
R 67	ERD25TJ821V	R:FXD CARBON	820 OHM 5% 1/4W	29866	807321820
R 68	ERD10TJ562	R:FXD CARBON	5.6K OHM 5% 1/8W	29866	807142560
R 69	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 70	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 71	ERD10TJ180	R:FXD CARBON	18 OHM 5% 1/8W	29866	807140180
R 72	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 73	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 74	ERD10TJ180	R:FXD CARBON	18 OHM 5% 1/8W	29866	807140180
R 75	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 76	ERD25TJ391V	R:FXD CARBON	390 OHM 5% 1/4W	29866	807321390
R 77	ERD25TJ331V	R:FXD CARBON	330 OHM 5% 1/4W	29866	807321330
R 78	ERD10TJ222	R:FXD CARBON	2.2K OHM 5% 1/8W	29866	807142220
R 78	ERD25TJ222V	R:FXD CARBON	2.2K OHM 5% 1/4W	29866	807322220
R 79	ERD10TJ151	R:FXD CARBON	150 OHM 5% 1/8W	29866	807141150
R 80	ERD10TJ152	R:FXD CARBON	1.5K OHM 5% 1/8W	29866	807142150
R 82	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 83	ERD10TJ562	R:FXD CARBON	5.6K OHM 5% 1/8W	29866	807142560
R 84	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 85	ERO25CKF1002	R:FXD MET FLM	10K OHM 1% 1/4W	29866	806622100
R 86	ERO25CKF5621	R:FXD MET FLM	5.62K OHM 1% 1/4W	29866	806621562
R 87	ERO25CKF5622	R:FXD MET FLM	56.2K OHM 1% 1/4W	29866	806622562
R 88	ERO25CKF3012	R:FXD MET FLM	30.1K OHM 1% 1/4W	29866	806622301
R 89	ERD25TJ562V	R:FXD CARBON	5.6K OHM 5% 1/4W	29866	807322560
R 90	ERD25TJ473V	R:FXD CARBON	47K OHM 5% 1/4W	29866	807323470
R 91	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 92	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 93	ERD25TJ822V	R:FXD CARBON	8.2K OHM 5% 1/4W	29866	807322820
R 94	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 95	ERD25TJ182V	R:FXD CARBON	1.8K OHM 5% 1/4W	29866	807322180
R 96	ERD25TJ470V	R:FXD CARBON	47 OHM 5% 1/4W	29866	807320470
R 97	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R 98	ERD25TJ220V	R:FXD CARBON	22 OHM 5% 1/4W	29866	807320220
R 99	ERD25TJ151V	R:FXD CARBON	150 OHM 5% 1/4W	29866	807321150
R 100	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 100	ERD25TJ391V	R:FXD CARBON	390 OHM 5% 1/4W	29866	807321390
R 101	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 102	ERD10TJ682	R:FXD CARBON	6.8K OHM 5% 1/8W	29866	807142680
R 103	ERD25TJ681V	R:FXD CARBON	680 OHM 5% 1/4W	29866	807321680
R 104	ERD10TJ822	R:FXD CARBON	8.2K OHM 5% 1/8W	29866	807142820
R 105	TM64K2PV2-14	R:VAR CERMET	10K OHM 20%	13750	819905340
R 106	ERD10TJ153	R:FXD CARBON	15K OHM 5% 1/8W	29866	807143150
R 107	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 108	ERD10TJ471	R:FXD CARBON	470 OHM 5% 1/8W	29866	807141470
R 109	ERD10TJ153	R:FXD CARBON	15K OHM 5% 1/8W	29866	807143150
R 110	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 111	ERD10TJ332	R:FXD CARBON	3.3K OHM 5% 1/8W	29866	807142330
R 112	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 113	ERD10TJ472	R:FXD CARBON	4.7K OHM 5% 1/8W	29866	807142470

RF(3) ASSY DWG NO 4G204188

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 114	ERD10TJ392	R:FXD CARBON	3.9K OHM 5% 1/8W	29866	807142390
R 115	ERO10CKF3571	R:FXD MET FLM	3.57K OHM 1% 1/8W	29866	806651357
R 116	ERD25TJ273V	R:FXD CARBON	27K OHM 5% 1/4W	29866	807323270
R 117	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R 118	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 119	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 120	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 121	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 122	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 123	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 124	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 125	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 126	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 127	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 128	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 129	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 130	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 131	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 132	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 133	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 134	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 135	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 136	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 137	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 138	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 139	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 140	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 141	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 142	ERD10TJ180	R:FXD CARBON	18 OHM 5% 1/8W	29866	807140180
R 143	ERD10TJ271	R:FXD CARBON	270 OHM 5% 1/8W	29866	807141270
R 144	ERD25TJ222V	R:FXD CARBON	2.2K OHM 5% 1/4W	29866	807322220
R 145	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 146	ERD25TJ272V	R:FXD CARBON	2.7K OHM 5% 1/4W	29866	807322270
R 147	ERD10TJ103	R:FXD CARBON	10K OHM 5% 1/8W	29866	807143100
R 148	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 149	6M0S25	R:VAR CERMET	200K OHM 20%	13153	819998033
R 150	ERD10TJ470	R:FXD CARBON	47 OHM 5% 1/8W	29866	807140470
R 151	ERD10TJ562	R:FXD CARBON	5.6K OHM 5% 1/8W	29866	807142560
T 1	4G430909-1	P0515A TRANSFORMER	SHAPER	ORGNL	857409091
T 2	4G430909-1	P0515A TRANSFORMER	SHAPER	ORGNL	857409091
T 3	4G431304	P8179B TRANSFORMER	MIX	ORGNL	850300180
T 4	4G431304	P8179B TRANSFORMER	MIX	ORGNL	850300180
T 5	4G430909-1	P0515A TRANSFORMER	SHAPER	ORGNL	857409091
T 6	4G430909-1	P0515A TRANSFORMER	SHAPER	ORGNL	857409091
U 1	TL082CP	IC:OP AMP	BI-FET DUAL	14558	639990190
U 2	UPB551C	IC:TTL	HIGH SPEED PRE SCALER	12167	610055140
U 3	UPB551C	IC:TTL	HIGH SPEED PRE SCALER	12167	610055140
U 4	TL082CP	IC:OP AMP	BI-FET DUAL	14558	639990190
U 5	UPC151C	IC:OP AMP		12167	620015110
U 6	MC1494L	IC:MULTIPLIER	LINER FOUR-QUADRANT MULT	15629	640149460
U 7	CMOS4555BP	IC:C MOS	DUAL BINARY DECODER	17160	602245550
U 8	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
U 9	CMOS4071BP	IC:C MOS	QUAD 2-INPUT OR GATE	17160	602240710
U 10	CMOS4081BP	IC:C MOS	QUAD 2-INPUT AND GATE	17160	602240810
XU 6	JC4616-11	IC SOCKET	16-PIN DIL	14558	903400500
Y 1	4G461691	CRYSTA:QUARTZ OSC	89MHZ (HC-18/U)	ORGNL	893416910

MAIN ATT ASSY DWG NO 4G204189

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C 1	ECEA1VS100	C:FXD AL ELECT	10UF +-20% 35V	29880	820018670
C 2	ECEA1VS100	C:FXD AL ELECT	10UF +-20% 35V	29880	820018670
C 3	ECEA1VS100	C:FXD AL ELECT	10UF +-20% 35V	29880	820018670
C 4	ECEA1VS100	C:FXD AL ELECT	10UF +-20% 35V	29880	820018670
C 11	ECEA1AS101	C:FXD AL ELECT	100UF +-20% 10V	29880	820018180
C 12	ECCF1H330K	C:FXD CER TC	33PF +-10% 50V SL	29897	822000415
C 13	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 14	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 15	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 16	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 17	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 18	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 19	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
C 20	ECKF1H103ZF	C:FXD CER HI-K	10000PF +80-20% 50V	29897	822000033
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 2	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 3	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 4	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 5	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 6	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 7	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 8	MA150TA	DIODE:SI	100MA 35V	29269	773150010
E 1	3G401223-1	P8179B PC BOARD	MAIN ATT	ORGNL	973122310
E 2	3G401224-1	P8179B PC BOARD	MAIN ATT	ORGNL	973122410
J 1	82J09	CONNECTOR:COAX	BNC JACK 50 OHM	12402	912120350
J 2	SS007	CONNECTOR:COAX	PLUG 50 OHM	12573	912120330
L 1	CX1051COIL9V	SOLENOID	9V	10159	876001270
L 2	CX1051COIL9V	SOLENOID	9V	10159	876001270
L 3	CX1051COIL9V	SOLENOID	9V	10159	876001270
L 4	CX1051COIL9V	SOLENOID	9V	10159	876001270
P 2	M3110S13	CONNECTOR:PIN	10P L:300	16368	911002140
Q 1	2SB774	TSTR:SI PNP	- -	29269	761774000
Q 2	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 3	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 4	2SB774	TSTR:SI PNP	- -	29269	761774000
Q 5	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 6	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 7	2SB774	TSTR:SI PNP	- -	29269	761774000
Q 8	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 9	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q 10	2SB774	TSTR:SI PNP	- -	29269	761774000
Q 11	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 12	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
R 1	ER025CKF68R1	R:FXD MET FLM	68.1 OHM 1% 1/4W	29866	806628681
R 2	ER025CKF1540	R:FXD MET FLM	154 OHM 1% 1/4W	29866	806620154
R 3	ER025CKF68R1	R:FXD MET FLM	68.1 OHM 1% 1/4W	29866	806628681
R 4	ER025CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/4W	29866	806628523
R 5	ER010CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R 6	ER010CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R 7	ER025CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/4W	29866	806628523
R 8	ER025CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/4W	29866	806628523
R 9	ER010CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R 10	ER010CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R 11	ER025CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/4W	29866	806628523
R 12	ER025CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/4W	29866	806628523
R 13	ER010CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R 14	ER010CKF4990	R:FXD MET FLM	499 OHM 1% 1/8W	29866	806650499
R 15	ER025CKF52R3	R:FXD MET FLM	52.3 OHM 1% 1/4W	29866	806628523
R 16	ER025CKF24R9	R:FXD MET FLM	24.9 OHM 1% 1/4W	29866	806628249
R 17	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100

MAIN ATT ASSY DWG NO 4G204189

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R 18	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 19	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 20	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 21	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 22	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 23	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 24	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 25	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 26	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 27	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 28	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 29	ERD10TJ220	R:FXD CARBON	22 OHM 5% 1/8W	29866	807140220
S 1	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 2	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 3	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 4	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 5	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 6	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 7	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 8	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 11	AH1918	MICRO SW	3A-30V DC	29246	874000120
S 17	SSM022(2)	SLIDE SW	DC30V 0.3A	11154	872001180

REMOTE ASSY DWG NO 4G204190

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C 1	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 2	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 3	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 4	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 6	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 7	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 8	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 9	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 11	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 12	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 13	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 14	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C 16	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 17	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 18	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 19	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 21	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 22	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 23	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 24	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 26	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 27	ECKF1H102KB	C:FXD CER HI-K	1000PF +-10% 50V	29897	822000009
C 28	ECEA1HS4R7	C:FXD AL ELECT	4.7UF +-20% 50V	29880	820018840
C 29	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
E 1	3G401225-1	P8179B PC BOARD	REMOTE	ORGNL	973122510
J 1	57-40240-D39	CONNECTOR	RECEPT 24P	13367	911103010
P 1	163740-8	CONNECTOR:PIN	CIS 10P 2.5PITCH	14441	911101040
P 2	1-163740-4	CONNECTOR:PIN	CIS 15P 2.5PITCH	14441	911001710
Q 1	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 2	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
R 1	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 2	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 3	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 4	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 6	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 7	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 8	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 9	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 11	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 12	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 13	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 14	ERD25TJ100V	R:FXD CARBON	10 OHM 5% 1/4W	29866	807320100
R 16	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 17	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 18	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 19	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 21	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 22	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 23	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 24	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 26	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 27	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 28	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 29	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 30	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 31	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 32	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100

AF ASSY DWG NO 4G204191

REF NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C 1	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 2	ECQE1105KZ	C:FXD FLM	1UF 10% 100V	26550	825700000
C 3	ECCW1H180K5	C:FXD CER TC	18PF +-10% 50V SL	29897	822000612
C 4	ECCW1H560K5	C:FXD CER TC	56PF +-10% 50V SL	29897	822000618
C 5	ECCW1H330K5	C:FXD CER TC	33PF +-10% 50V SL	29897	822000615
C 6	ECCW1H271K5	C:FXD CER TC	270PF +-10% 50V SL	29897	822000626
C 7	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 8	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 9	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C 10	ECEA1CS470	C:FXD AL ELECT	47UF +-20% 16V	29880	820018340
C 12	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
CR 1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 2	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 3	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 4	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 5	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 6	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 7	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR 8	MA150TA	DIODE:SI	100MA 35V	29269	773150010
E 1	2G401235-1	P8179B PC BOARD	AF	ORGNL	972123510
J 1	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
J 2	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
K 1	AE5349	REED RELAY	5V,1A-20VDC 1PDT	29246	876001200
K 2	AE5349	REED RELAY	5V,1A-20VDC 1PDT	29246	876001200
K 3	AE5349	REED RELAY	5V,1A-20VDC 1PDT	29246	876001200
K 4	AE5349	REED RELAY	5V,1A-20VDC 1PDT	29246	876001200
P 9	M3110S21	CONNECTOR:PIN	10P L:100	16368	911002130
Q 1	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q 2	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
R 1	EVHCCAK25B14	R:VAR CARBON	10K OHM 20%	29871	810510260
R 2	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 3	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 4	ERD25TJ753V	R:FXD CARBON	75K OHM 5% 1/4W	29866	807323750
R 5	ERD25TJ332V	R:FXD CARBON	3.3K OHM 5% 1/4W	29866	807322330
R 6	ERD25TJ753V	R:FXD CARBON	75K OHM 5% 1/4W	29866	807323750
R 7	EWKE0AK25B14	R:VAR CARBON	10K OHMX2 20% 1/5W	29871	812900570
R 8	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 9	ER050CKF4753	R:FXD MET FLM	475K OHM 1% 1/2W	29866	806643475
R 10	SR29R473B	R:VAR COMP	47K OHM 25% 1/8W	11154	819910510
R 11	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 12	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R 13	SR19R472B	R:VAR COMP	4.7K OHM 25% 1/8W	11154	819910050
R 16	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R 17	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R 18	ER025CKF4531	R:FXD MET FLM	4.53K OHM 1% 1/4W	29866	806621453
R 19	ER025CKF1001	R:FXD MET FLM	1K OHM 1% 1/4W	29866	806621100
R 20	ER025CKF9091	R:FXD MET FLM	9.09K OHM 1% 1/4W	29866	806621909
R 21	ER025CKF2671	R:FXD MET FLM	2.67K OHM 1% 1/4W	29866	806621267
R 22	ER025CKF1003	R:FXD MET FLM	100K OHM 1% 1/4W	29866	806623100
R 24	ERD25TJ393V	R:FXD CARBON	39K OHM 5% 1/4W	29866	807323390
R 25	SR29R103B	R:VAR COMP	10K OHM 25% 1/8W	11154	819910420
R 26	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R 27	ERD25TJ330V	R:FXD CARBON	33 OHM 5% 1/4W	29866	807320330
R 30	ERD25TJ220V	R:FXD CARBON	22 OHM 5% 1/4W	29866	807320220
S 1	SSP322	SLIDE SW	DC30V 0.3A	11154	872001190
S 2	4G410639-1	P8179A ROTARY SW		ORGNL	870314001
U 1	TL081CP	IC:OP AMP	BI-FET	14558	639990200
U 2	NE5534AP	IC:OP AMP	LOW NOISE	14558	639990770
U 3	TL081CP	IC:OP AMP	BI-FET	14558	639990200

POWER AF OSC ASSY DWG NO 4G204192

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
C	1	ECQP1163FZ	C:FXD FLM	0.016UF 1% 100V	26550	825590193
C	2	ECQP1163FZ	C:FXD FLM	0.016UF 1% 100V	26550	825590193
C	3	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C	4	ECEA1CS101	C:FXD AL ELECT	100UF +-20% 16V	29880	820018350
C	6	ECEA1CS100	C:FXD AL ELECT	10UF +-20% 16V	29880	820018310
C	6	ECQP1243FZ	C:FXD FLM	0.024UF 1% 100V	26550	825590176
C	8	ECEA1CS220	C:FXD AL ELECT	22UF +-20% 16V	29880	820018320
C	9	ECCW1H050D5	C:FXD CER TC	5PF +-0.5PF 50V SL	29897	822000604
C	10	ECEA1HS010	C:FXD AL ELECT	1UF +-20% 50V	29880	820018810
C	11	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	12	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	13	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	14	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	15	ECET35R222SW	C:FXD AL ELECT	2200UF +30%-10% 35V	29880	820233040
C	16	ECET35R222SW	C:FXD AL ELECT	2200UF +30%-10% 35V	29880	820233040
C	17	ECEA1CS471	C:FXD AL ELECT	470UF +-20% 16V	29880	820018380
C	18	ECEA1CS471	C:FXD AL ELECT	470UF +-20% 16V	29880	820018380
C	19	ECEA1VS100	C:FXD AL ELECT	10UF +-20% 35V	29880	820018670
C	20	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	21	ECET16R103SW	C:FXD AL ELECT	10000UF +30%-10% 16V	29880	820234050
C	22	ECKF1H104ZV	C:FXD CER HI-K	0.1UF +80%-20% 50V	29897	822000040
C	23	ECEA1CS221	C:FXD AL ELECT	220UF +-20% 16V	29880	820018360
C	24	ECSF35E1	C:FXD TA ELECT	1UF 20% 35V	29880	820746220
CR	1	MA150TA	DIODE:SI	100MA 35V	29269	773150010
CR	2	1SS97	DIODE:SI	35MA 10V	12167	775002180
CR	3	V06B	DIODE:SI	1.3A 600V	14458	772000870
CR	4	V06B	DIODE:SI	1.3A 600V	14458	772000870
CR	5	V06B	DIODE:SI	1.3A 600V	14458	772000870
CR	6	V06B	DIODE:SI	1.3A 600V	14458	772000870
CR	7	S3V10	DIODE:PWR RECT	3.5A 100V	12353	772000860
CR	8	S3V10	DIODE:PWR RECT	3.5A 100V	12353	772000860
CR	9	MA150TA	DIODE:SI	100MA 35V	29269	773150010
E	1	2G401236-1	P8179B PC BOARD	POWER AF OSC	ORGNL	972123610
J	1	M3310P01	CONNECTOR:PIN	10P STRAIGHT	16368	911002000
Q	1	2SK30A-GR	TSTR:FET	PC:100MW	17160	769001030
Q	2	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	3	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	4	2SA699A-QR	TSTR:SI PNP	PC:10W FT:150MHZ	29269	760699130
Q	5	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
Q	6	2SA564A-RS	TSTR:SI PNP	PC:250MW FT:80MHZ	29269	760564110
Q	7	2SD389-PQ	TSTR:SI NPN	PC:25W FT:25MHZ	29273	763389010
Q	8	2SA699A-QR	TSTR:SI PNP	PC:10W FT:150MHZ	29269	760699130
Q	9	2SC828A-RS	TSTR:SI NPN	PC:250MW FT:220MHZ	29269	762828120
R	1	ERD25TJ682V	R:FXD CARBON	6.8K OHM 5% 1/4W	29866	807322680
R	2	SR19R223B	R:VAR COMP	22K OHM 25% 1/8W	11154	819910070
R	3	ERD25TJ182V	R:FXD CARBON	1.8K OHM 5% 1/4W	29866	807322180
R	4	ER025CKF9760	R:FXD MET FLM	976 OHM 1% 1/4W	29866	806620976
R	5	ER025CKF9762	R:FXD MET FLM	97.6K OHM 1% 1/4W	29866	806622976
R	6	ER025CKF1373	R:FXD MET FLM	137K OHM 1% 1/4W	29866	806623137
R	7	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	7	ERD25TJ183V	R:FXD CARBON	18K OHM 5% 1/4W	29866	807323180
R	8	SR19R103B	R:VAR COMP	10K OHM 25% 1/8W	11154	819910250
R	9	ERD25TJ101V	R:FXD CARBON	100 OHM 5% 1/4W	29866	807321100
R	10	ERD25TJ152V	R:FXD CARBON	1.5K OHM 5% 1/4W	29866	807322150
R	11	ER025CKF9531	R:FXD MET FLM	9.53K OHM 1% 1/4W	29866	806621953
R	12	SR19R102B	R:VAR COMP	1K OHM 25% 1/8W	11154	819910120
R	13	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	14	ERD25TJ683V	R:FXD CARBON	68K OHM 5% 1/4W	29866	807323680
R	17	ERD25TJ334V	R:FXD CARBON	330K OHM 5% 1/4W	29866	807324330
R	18	ERD25TJ822V	R:FXD CARBON	8.2K OHM 5% 1/4W	29866	807322820
R	19	SR19R472B	R:VAR COMP	4.7K OHM 25% 1/8W	11154	819910050

POWER AF OSC ASSY DWG NO 4G204192

REF	NO	PART NO	DESCRIPTION		MFR/DBR	CODE-NO
R	23	SR19R222B	R:VAR COMP	2.2K OHM 25% 1/8W	11154	819910170
R	24	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R	25	ERD25TJ472V	R:FXD CARBON	4.7K OHM 5% 1/4W	29866	807322470
R	26	ERD25TJ103V	R:FXD CARBON	10K OHM 5% 1/4W	29866	807323100
R	27	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	28	ERD25TJ334V	R:FXD CARBON	330K OHM 5% 1/4W	29866	807324330
R	29	ERD25TJ471V	R:FXD CARBON	470 OHM 5% 1/4W	29866	807321470
R	30	ERD25TJ104V	R:FXD CARBON	100K OHM 5% 1/4W	29866	807324100
R	31	ERD25TJ334V	R:FXD CARBON	330K OHM 5% 1/4W	29866	807324330
R	32	SR19R331B	R:VAR COMP	330 OHM 25% 1/8W	11154	819910200
R	33	ERO25CKF1331	R:FXD MET FLM	1.33K OHM 1% 1/4W	29866	806621133
R	34	ERO25CKF3161	R:FXD MET FLM	3.16K OHM 1% 1/4W	29866	806621316
R	35	ERG1ANJ471	R:FXD MET OXD	470 OHM 5% 1W	29861	808531470
R	36	ERD25TJ222V	R:FXD CARBON	2.2K OHM 5% 1/4W	29866	807322220
R	37	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R	38	ERO25CKF7681	R:FXD MET FLM	7.68K OHM 1% 1/4W	29866	806621768
R	39	SR19R102B	R:VAR COMP	1K OHM 25% 1/8W	11154	819910120
R	40	ERO25CKF4751	R:FXD MET FLM	4.75K OHM 1% 1/4W	29866	806621475
R	41	ERO25CKF1002	R:FXD MET FLM	10K OHM 1% 1/4W	29866	806622100
R	42	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R	43	ERD25TJ222V	R:FXD CARBON	2.2K OHM 5% 1/4W	29866	807322220
R	44	ERG1ANJ471	R:FXD MET OXD	470 OHM 5% 1W	29861	808531470
R	45	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R	46	ERO25CKF1002	R:FXD MET FLM	10K OHM 1% 1/4W	29866	806622100
R	47	ERG1ANJ220	R:FXD MET OXD	22 OHM 5% 1W	29861	808530220
R	48	ERD25TJ151V	R:FXD CARBON	150 OHM 5% 1/4W	29866	807321150
R	49	ERD25TJ102V	R:FXD CARBON	1K OHM 5% 1/4W	29866	807322100
R	50	ERO25CKF1002	R:FXD MET FLM	10K OHM 1% 1/4W	29866	806622100
R	51	ERO25CKF4991	R:FXD MET FLM	4.99K OHM 1% 1/4W	29866	806621499
R	52	ERO25CKF9531	R:FXD MET FLM	9.53K OHM 1% 1/4W	29866	806621953
R	54	ET6P101	R:VAR CERMET	100 OHM 20% 1/2W	12001	819998153
R	55	ET6P103	R:VAR CERMET	10K OHM 20% 1/2W	12001	819998159
U	1	TL082CP	IC:OP AMP	BI-FET DUAL	14558	639990190
U	2	TL081CP	IC:OP AMP	BI-FET	14558	639990200
U	3	NE5534AP	IC:OP AMP	LOW NOISE	14558	639990770
U	4	UPC251C	IC:OP AMP		12167	620025110
U	5	UPC151C	IC:OP AMP		12167	620015110
VR	1	1SZ51	DIODE:ZENER	75MA 6V	12167	775002020

POWER ASSY DWG NO 4G204435

REF	NO		PART NO	DESCRIPTION		MFR/DBR	CODE-NO
		1	MJP8179B10-0	INSTRUCTION MANUAL	4G188185	10177	271073560
	**	1	76J003	CONNECTOR	POWER	11191	919100040
F	**		TSC1R5A	FUSE	1.5A 125V 20MM	12219	891000140
F	1		TSC1R5A	FUSE	1.5A 125V 20MM	12219	891000140
P	1		33-76B-2M	CABLE:PWR (UL,CSA)	125V 7A	15360	918100261

CABINET H100XW426XD350 DWG NO 4G302262

REF NO	QTY	PART NO	DESCRIPTION	MFR/DBR	CODE-NO
	4	A66S81M27	FRAME,CORNER H100	16177	264020290
	4	R76G-C30RK15	FOOT-C30RK15	13167	270031070
	1	3G550003-2N	P438A STAND	ORGNL	255300032
	1	3G580565-0S	COVER,BTM H100XW426XD350	ORGNL	258305650
	1	3G580566-0S	COVER,TOP H100XW426XD350	ORGNL	258305660
	4	3G670506-0SF	TRIM H100XW426	ORGNL	267305060
	1	3G670515-0SF	EXTRUSION,LH D350	ORGNL	267305150
	1	3G670516-0SF	EXTRUSION,RH D350	ORGNL	267305160
	1	4G550009-0E	HANDLE ASSEY,MIDDLE	ORGNL	255400090
	2	4G550020-0FF	P5250A HOLDER:HANDLE-M	ORGNL	255400200
	2	4G760127-2G	FOOT,RECTANGULAR-RH	ORGNL	276401272
	2	4G760128-2G	FOOT,RECTANGULAR-LH	ORGNL	276401282
	8	4G760131-1G	RUBBER:FOOT,RECTANGULAR	ORGNL	276401311

MECHA DWG NO 4G302668

REF NO	QTY	PART NO	DESCRIPTION	MFR/DBR	CODE-NO
	1	R76K-B312250	BUSHING-B312-250	13197	270031090
	1	R76W-60743C	BAND:POWER CORD	13197	270030890
	1	2G580686-0CH	P8179B10 PLATE,REAR	ORGNL	258206860
	1	2G590548-0CB	P8179B PLATE,FRONT	ORGNL	259205480
	1	2G590549-0WB	P8179B CHASSIS:POWER	ORGNL	259205490
	1	2G630577-0AH	P8179B10 PANEL	ORGNL	263205770
	1	3G710401-0N	BAG:PACKING	ORGNL	271304010
	1	4G530519-1K	P8179B FILTER:LED	ORGNL	253405191
	1	4G580574-0AF	P8179B PLATE:OUTPUT	ORGNL	258405740
	1	4G580575-0AF	P8179B PLATE:CONNECTOR	ORGNL	258405750
	2	4G615562-0YB	P8811A COVER:TRANS	ORGNL	261455620
	1	4G616590-0BB	P8178B CLAMP:METER	ORGNL	261465900
	1	4G616597-0EB	P8178B MOUNTING:VR	ORGNL	261465970
	1	4G616709-0LB	BAND,D6	ORGNL	261467090
	1	4G616855-0CB	P8179B ANGLE:PCB-3	ORGNL	261468550
	1	4G616856-0BB	P8179B ANGLE:POWER SW	ORGNL	261468560
	1	4G616857-0GB	P8179B HOLDER:SW	ORGNL	261463570
	1	4G616858-0WB	P8179B HEAT SINK:POWER	ORGNL	261468580
	1	4G616859-0BB	P8179B HOLDER:VR	ORGNL	261468590
	1	4G616860-0CB	P8179B ANGLE:PCB-1	ORGNL	261468600
	1	4G616861-0CB	P8179B ANGLE:PCB-2	ORGNL	261468610
	1	4G633436-0KA	P5510A LABEL:POWER	ORGNL	263434360
	1	4G633863-0KH	P7212A PLATE:VOLTAGE	ORGNL	263438630
	2	4G644162-1AB	SPACER 2.6X10	ORGNL	264441621
	1	4G702214-1E	P7703A ROD:SWITCH	ORGNL	270422141
	1	4G712001-1N	BAG:ACCESSORY	ORGNL	271420011
	1	4G712045-0N	BAG,1B	ORGNL	271420450
	4	4G760126-0G	P542A FOOT,REAR	ORGNL	276401260
	2	4G760169-0X	P8911A CUSHIOH:TRANS	ORGNL	276401690
	1	4G760203-0M	P9631A HOLE PLUG 403	ORGNL	276402030
FINE	1	3G760035-0C	KNOB,10N6AS	ORGNL	276300350
FINE	1	4G644135-0AB	P513A SPACER 3X20	ORGNL	264441350
INCRE	1	3G760099-0C	KNOB,25N6A	ORGNL	276300990
INCRE	1	4G760139-0X	P5102A COVER;SWITCH	ORGNL	276401390
MAIN	1	4G644135-0AB	P513A SPACER 3X20	ORGNL	264441350
METER	1	3G760035-0C	KNOB,10N6AS	ORGNL	276300350
MODE	1	4G760139-0X	P5102A COVER;SWITCH	ORGNL	276401390
MODFY	1	3G760099-0C	KNOB,25N6A	ORGNL	276300990
UNIT	1	4G760139-0X	P5102A COVER;SWITCH	ORGNL	276401390

MECHA:COUNTER DWG NO 4G302449

REF NO	QTY	PART NO	DESCRIPTION	MFR/DBR	CODE-NO
	1	2G611512-0YB	P8179B COUNTER CASE,OUT	ORGNL	261215120
	1	3G613075-0FB	P8179B CAP:COUNTER-4	ORGNL	261330750
	1	3G670556-0CB	P8179B COUNTER CASE,IN	ORGNL	267305560
	1	4G616862-0FB	P8179B CAP:COUNTER-1	ORGNL	261468620
	1	4G616863-0FB	P8179B CAP:COUNTER-2	ORGNL	261468630
	1	4G616864-0AB	P8179B CAP:COUNTER-3	ORGNL	261468640
	1	4G616865-0CB	P8179B HOLDER:CASE	ORGNL	261468650
	1	4G616866-0BB	P8179B MTG:COUNTER CASE	ORGNL	261468660
	1	4G616867-0BB	P8179B HLDR:COUNTER CASE	ORGNL	261468670
	2	4G644146-1AB	SPACER 3X25	ORGNL	264441461
	1	4G644504-0GB	P8178B HOLDER:CORD	ORGNL	264445040

MECHA:RF DWG NO 4G302669

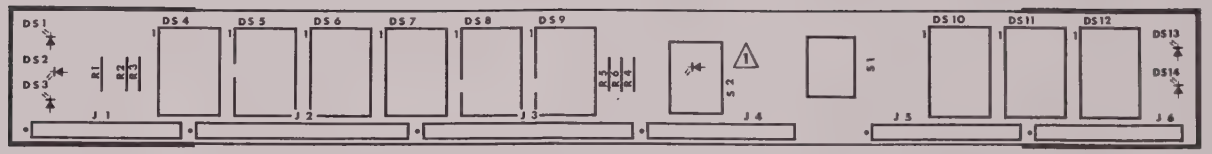
REF NO	QTY	PART NO	DESCRIPTION	MFR/DBR	CODE-NO
	1	R76K-B312250	BUSHING-B312-250	13197	270031090
	1	2G590581-0YB	P8179B10 RF CASE,OUTER	ORGNL	259205810
	1	3G590639-0BB	P8179B10 SEPARATOR	ORGNL	259306390
	1	3G613978-0FB	P8179B CAP:RF CASE-4	ORGNL	261339780
	1	3G613979-0AB	P8179B CAP:RF CASE-2	ORGNL	261339790
	1	3G614031-0AB	P8179B10 CAP:RF CASE	ORGNL	261340310
	1	3G670570-0CB	P8179B10 RF CASE,INNER	ORGNL	267305700
	1	4G540542-0KB	P8179B SPRING	ORGNL	254405420
	1	4G616865-0CB	P8179B HOLDER:CASE	ORGNL	261468650
	1	4G616872-0CB	P8179B MOUNTING:RF CASE	ORGNL	261468720
	1	4G616873-0AB	P8179B CAP:RF CASE-1	ORGNL	261468730
	1	4G616874-0HB	P8179B CASE:SHIELD	ORGNL	261468740
	10	4G616875-0HB	P8179B PLATE:SHIELD	ORGNL	261468750
	1	4G616876-0CB	P8179B HEAT SINK:RF	ORGNL	261468760
	1	4G616877-0AB	P8179B CLAMP:TR-1	ORGNL	261468770
	1	4G616878-0AB	P8179B CLAMP:TR-2	ORGNL	261468780
	1	4G616879-0FD	P8179B COVER:SHIELD CASE	ORGNL	261468790
	1	4G616880-0WB	P8179B ATT CASE:32DB,OUT	ORGNL	261468800
	1	4G616881-0CB	P8179B ATT CASE:32DB,IN	ORGNL	261468810
	1	4G616882-0AB	P8179B ATT CASE CVR:32DB	ORGNL	261468820
	1	4G616883-0BB	P8179B CLAMP:PCB	ORGNL	261468830
	1	4G616884-0GB	P8179B HOLDER:RF CASE	ORGNL	261468840
	1	4G616885-0AB	P8179B PLATE:RF SPACER	ORGNL	261468850
	1	4G616886-0BB	P8179B SHIELD:RF-1	ORGNL	261468860
	1	4G616887-0DB	P8179B SHIELD:RF-2	ORGNL	261468870
	1	4G617090-0AB	P8179B10 SHIELD:RF	ORGNL	261470900
	1	4G644147-1AB	SPACER 3X30	ORGNL	264441471
	2	4G644504-0GB	P8178B HOLDER:CORD	ORGNL	264445040
	1	4G644528-0GB	P8179B GUIDE:PUSH ROD-1	ORGNL	264445280
	1	4G690532-0BB	P8179B HEAT SINK:TR	ORGNL	269405320
	1	4G702567-0E	P8179B ROD:PUSH-1	ORGNL	270425670
	1	4G702641-0E	P8179B ROD:PUSH-3	ORGNL	270426410
	8	4G720539-0FB	P8179B BOSS M3X4.5	ORGNL	

MECHA:ATT DWG NO 4G302450

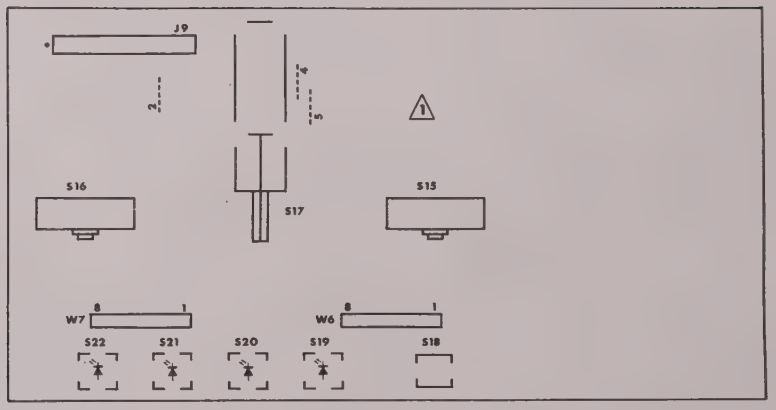
REF NO	QTY	PART NO	DESCRIPTION	MFR/DBR	CODE-NO
	1	3G613076-1CB	P8179B ATT CASE,OUTER	ORGNL	261330761
	1	3G613077-0CB	P8179B ATT CASE,INNER	ORGNL	261330770
	4	4G540542-0KB	P8179B SPRING	ORGNL	254405420
	1	4G616868-0BB	P8179B HOLDER:SLIDE SW	ORGNL	261468680
	1	4G616869-0CB	P8179B COVER:ATT CASE	ORGNL	261468690
	1	4G616870-0CB	P8179B MOUNTING:ATT CASE	ORGNL	261468700
	1	4G616871-0AB	P8179B PLATE:ATT SPACER	ORGNL	261468710
	1	4G644526-0G	P8179B GUIDE:PUSH ROD-2	ORGNL	264445260
	1	4G644527-0EB	P8179B HOLDER:ATT CASE	ORGNL	264445270
	4	4G644528-0GB	P8179B GUIDE:PUSH ROD-1	ORGNL	264445280
	2	4G650508-0NB	P8179B NET:ATT SHIELD	ORGNL	265405080
	4	4G702567-0E	P8179B ROD:PUSH-1	ORGNL	270425670
	1	4G702568-0E	P8179B ROD:PUSH-2	ORGNL	270425680
	4	4G702641-0E	P8179B ROD:PUSH-3	ORGNL	270426410

PACKAGE DWG NO 4G302258

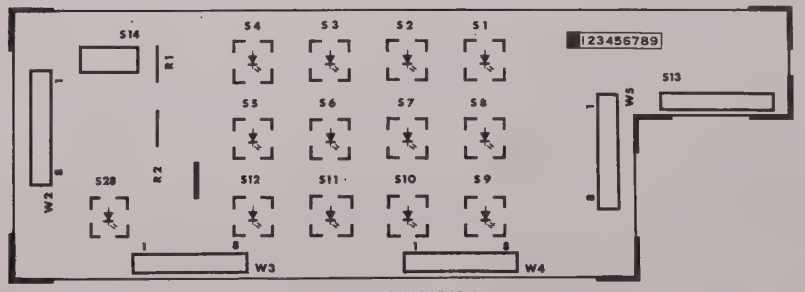
REF NO	QTY	PART NO	DESCRIPTION	MFR/DBR	CODE-NO
	4	4G712169-0F	KP-840 CUSHION	ORGNL	
	1	4G712529-0A	KP-850 CARTON BOX	ORGNL	
	1	850SN0	KP-850 PACKING KIT	11551	298500000



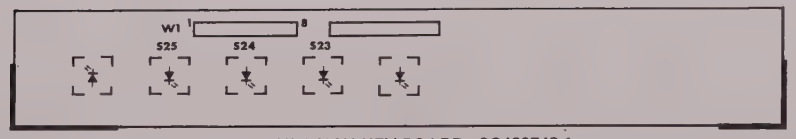
LED PCB 2G401237-1



OUTPUT LEVEL KEY BOARD 2G400748-1

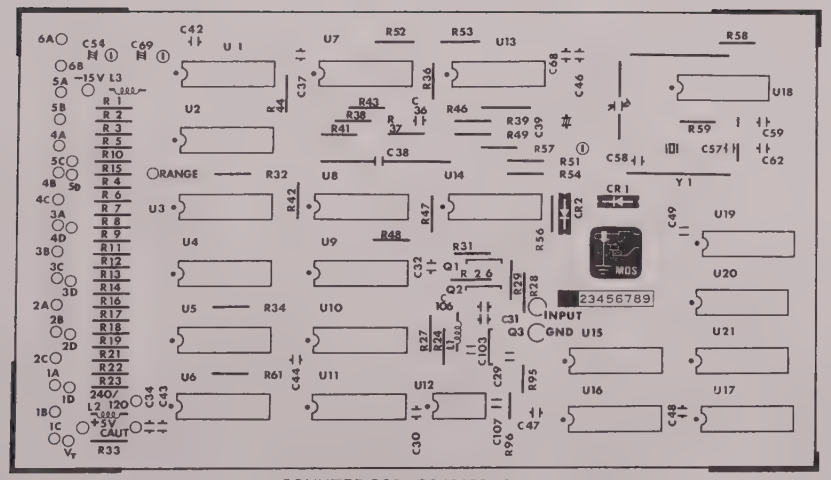


FREQUENCY KEY BOARD 3G401246-1

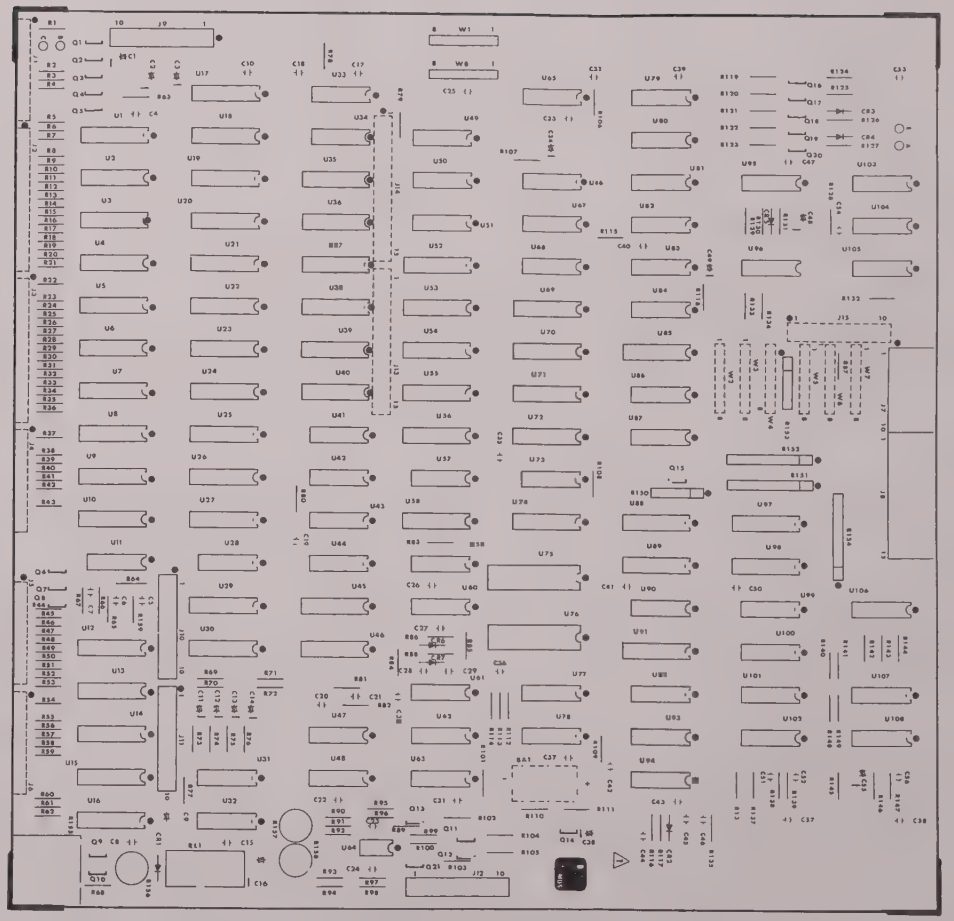


MODULATION KEY BOARD 2G400748-1

Fig. 3-1
PARTS PLACEMENT

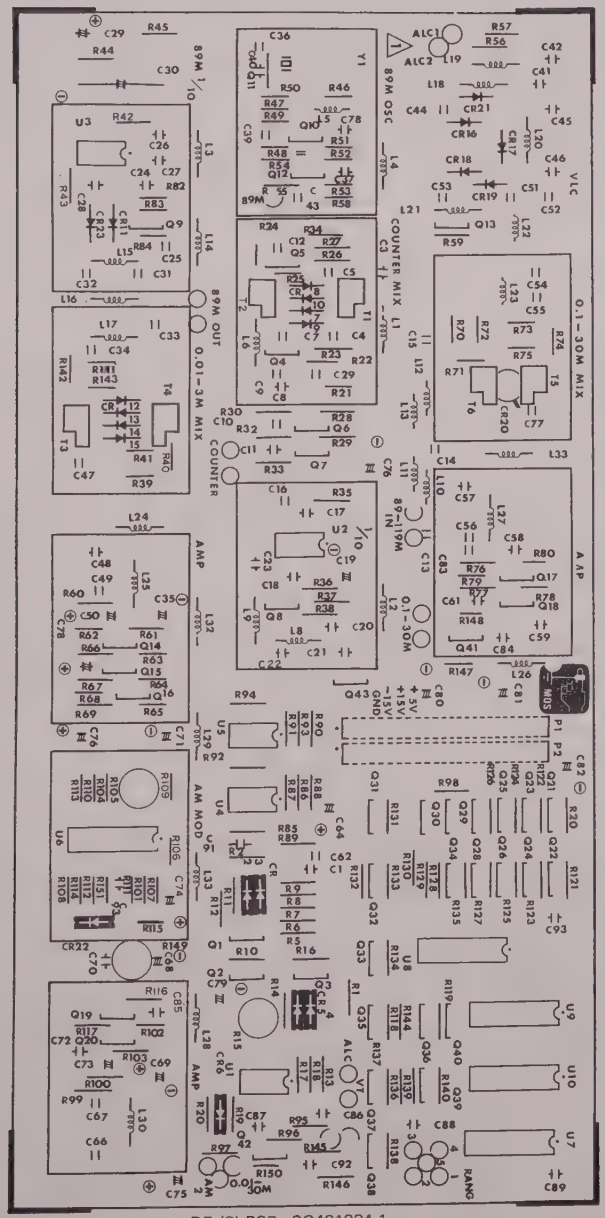


COUNTER PCB 3G401221-2

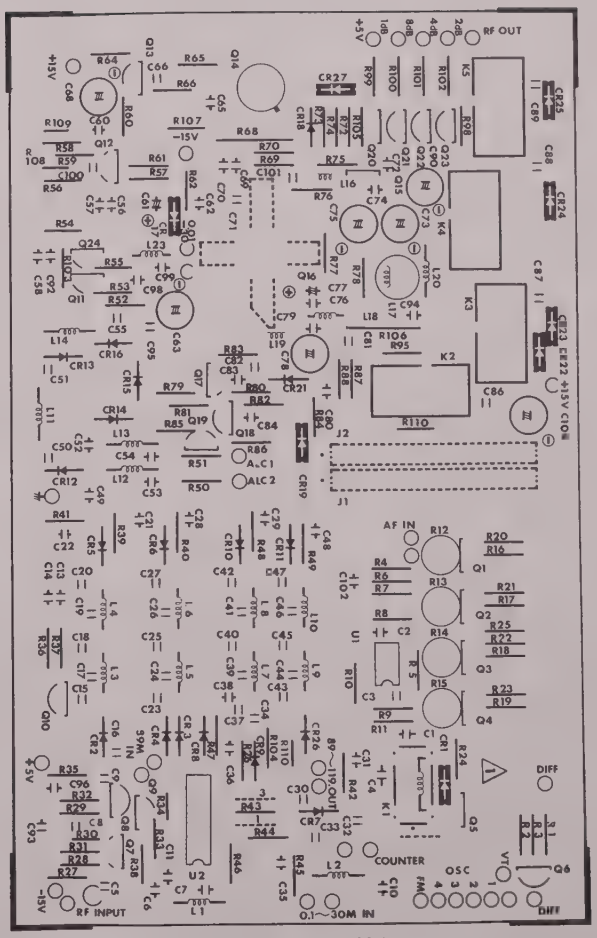


CONTROL PCB 2G401268-1

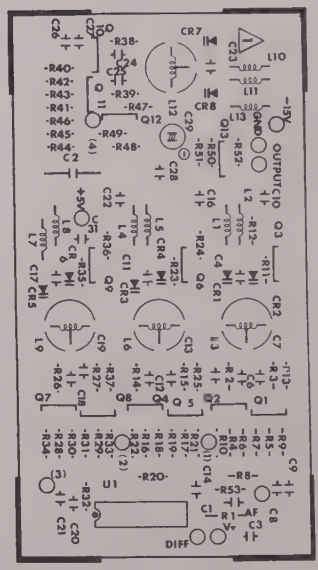
Fig. 3-2
PARTS PLACEMENT



RF (3) PCB 2G401234-1

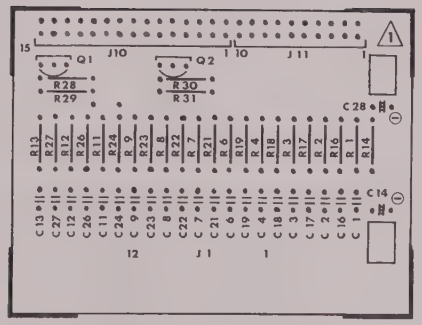


RF(2) PCB 2G401233-1

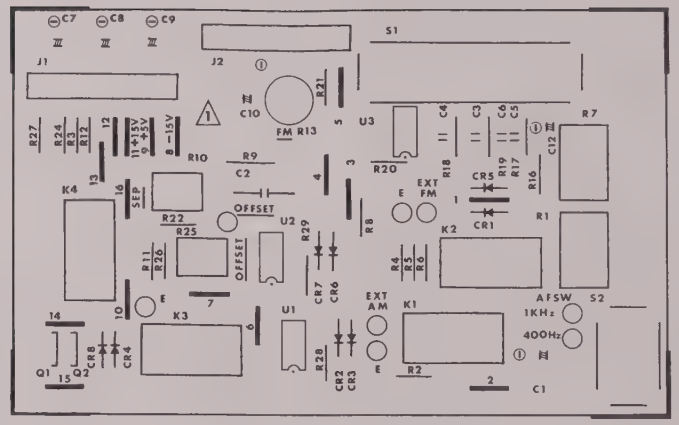


RF (1) PCB 3G401222-1

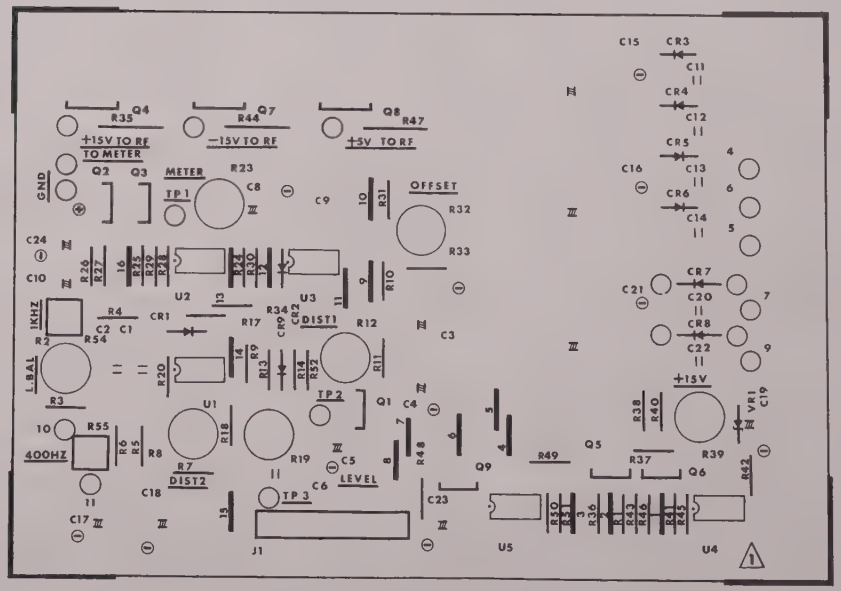
Fig. 3-3
PARTS PLACEMENT



REMOTE CONTROL PCB 3G401225-1



AF PCB 2G401235-1



POWER, AF OSC PCB 2G401236-1

Fig. 3-4
PARTS PLACEMENT

4. CIRCUIT DIAGRAMS

Page

- OVERALL INTERCONNECTION A1 ..... 4- 1
- MOD SW A2 ..... 4- 2
- FREQ KEY SW A3 ..... 4- 2
- MODE AND INCR SW A4 ..... 4- 2
- ATT KEY SW A5 ..... 4- 2
- LED A6 ..... 4- 3
- CONTROL A7-1 ..... 4- 4
- CONTROL A7-2 ..... 4- 5
- COUNTER A8 ..... 4- 6
- RF (0) A9-0 ..... 4- 7
- RF (1) A9-1 ..... 4- 8
- RF (2) A9-2 ..... 4- 9
- RF (3) A9-3 ..... 4- 9
- MAIN ATT A10 4-10
- REMOTE A11 4-11
- AF A12 4-12
- POWER & AF A13 4-13

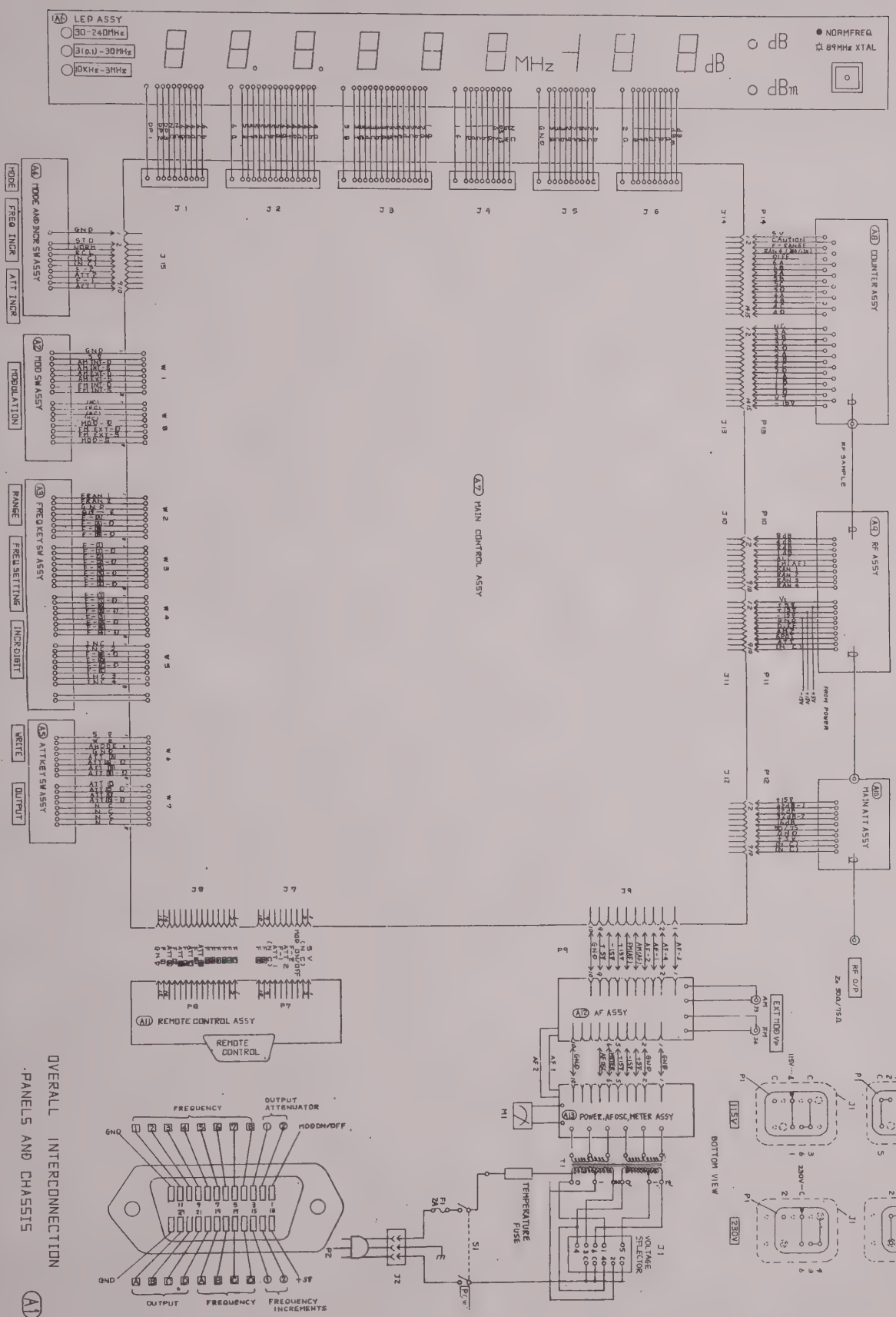
▷ WHEN THE CIRCUIT IS DIVIDED INTO SOME UNITS AND AN IDENTIFYING NUMBER IS ASSIGNED TO EACH UNIT, REFERENCE DESIGNATORS IN EACH CIRCUIT DIAGRAM ARE GIVEN IN ABBREVIATED FORM. PREFIX WITH EACH IDENTIFYING NUMBER FOR COMPLETE DESCRIPTION.
EXAMPLES; A1C1, A6R3.

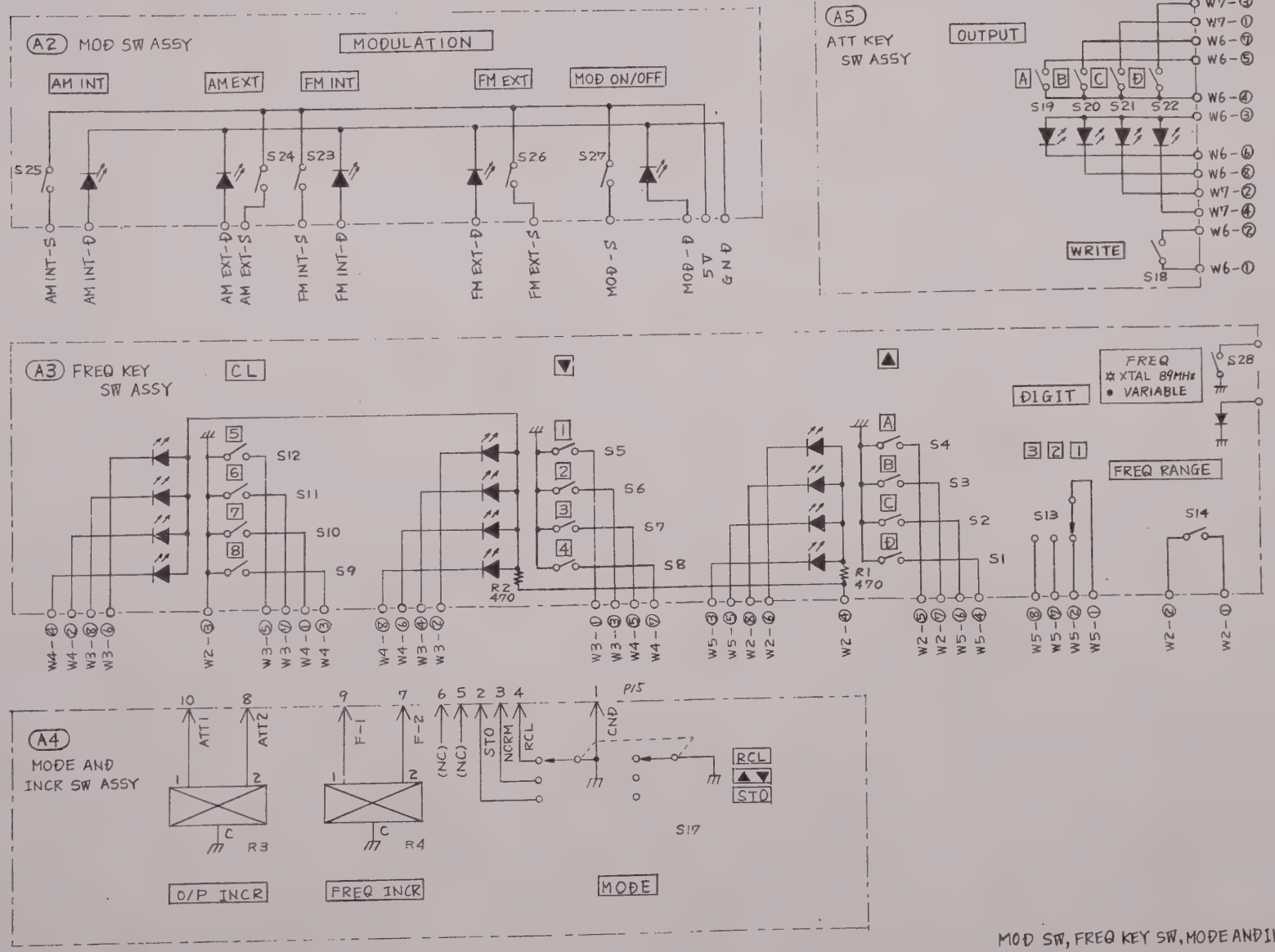
▷ RESISTANCE VALUES IN OHMS AND CAPACITANCE IN PICOFARADS(FROM 1 TO 9,999) OR MICROFARADS (FROM 0.01 TO 0.99) UNLESS OTHERWISE NOTED.

▷ POWER RATINGS AND RESISTANCE TOLERANCES OF FIXED RESISTORS ARE 1/8 WATTS AND ±5 % UNLESS OTHERWISE NOTED.

▷ ✡ FACTORY REWORKED OR CHECKED COMPONENTS.

▷ ※ VALUE SELECTED AT FACTORY, NOMINAL VALUE SHOWN.


A6 LED ASSY
30-240MHz
3(0.1)-30MHz
10KHz-3MHz
MHz
dB
dBm
NORMFREQ
89MHz XTAL
A5 MODE AND INCR SW ASSY
MODE
FREQ INCR
ATT INCR
A4 MOD SW ASSY
MODULATION
A3 FREQ KEY SW ASSY
RANGE
FREQ SETTING
INCR/DIST
A2 ATTKEY SW ASSY
WRITE
OUTPUT
A7 MAIN CONTROL ASSY
A8 COUNTER ASSY
A9 RF ASSY
A10 MAIN ATT ASSY
RF SAMPLE
FROM POWER
RF O/P
2x 50Ω/75Ω
A11 REMOTE CONTROL ASSY
REMOTE CONTROL
A12 AF ASSY
EXT MOD I/P
A13 POWER, AFOSC, METER ASSY
M1
T1
TEMPERATURE FUSE
F1 2A
S1
VOLTAGE SELECTOR
BOTTOM VIEW
115V
230V
100V
215V
FREQUENCY
OUTPUT ATTENUATOR
MODON/OFF
GND
OUTPUT
FREQUENCY
FREQUENCY INCREMENTS
OVERALL INTERCONNECTION
PANELS AND CHASSIS
A1

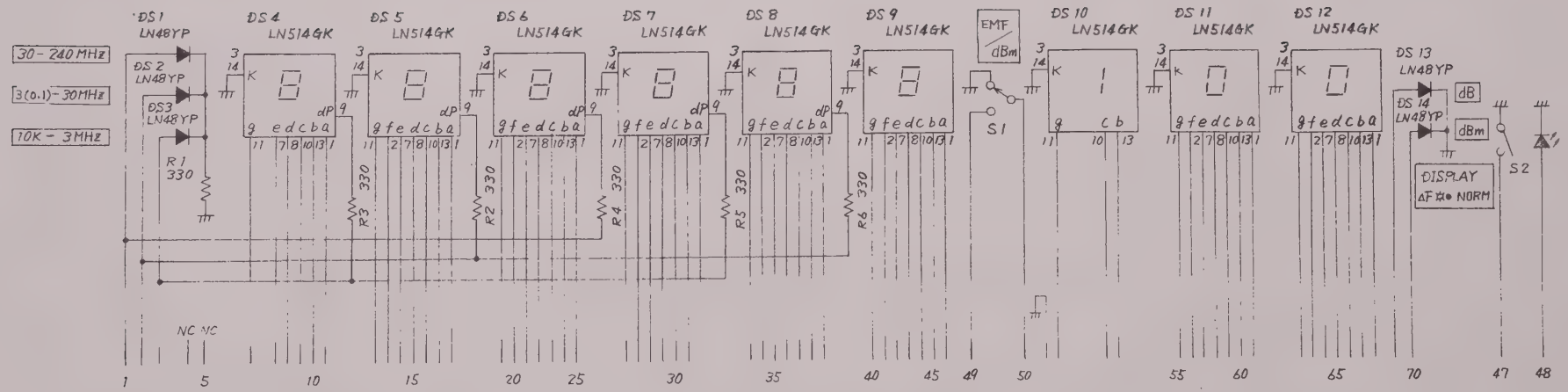


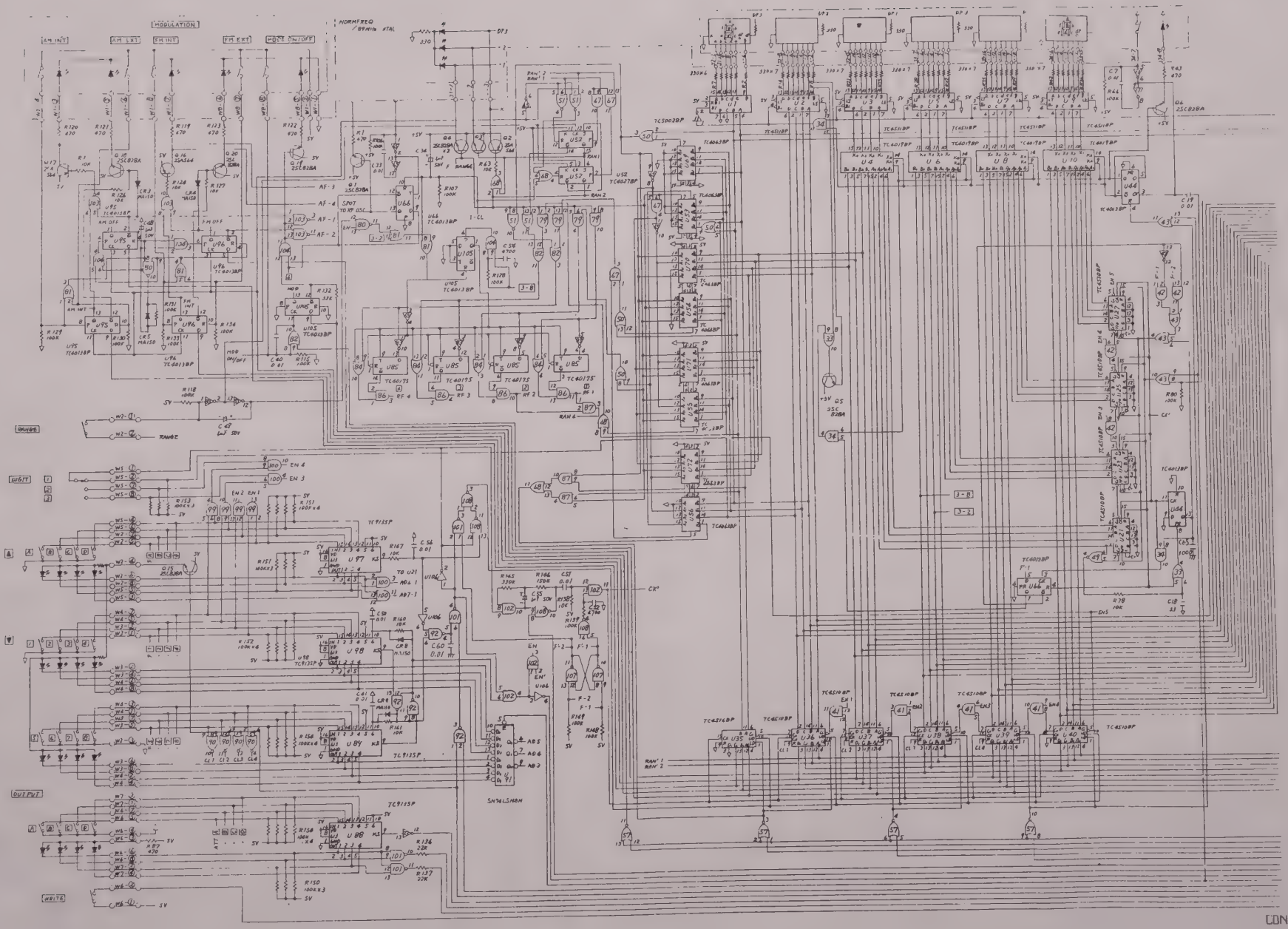
VP-8179810

3G-13-1165

MOD SW, FREQ KEY SW, MODE AND INCR SW, ATT KEY SW

A2 A3 A4 A5


30 - 240 MHz
3(0.1) - 30MHz
10K - 3MHz
DS1 LN48YP
DS2 LN48YP
DS3 LN48YP
R1 330
DS4 LN514GK
DS5 LN514GK
DS6 LN514GK
DS7 LN514GK
DS8 LN514GK
DS9 LN514GK
R2 330
R3 330
R4 330
R5 330
R6 330
EMF
dBm
S1
DS10 LN514GK
DS11 LN514GK
DS12 LN514GK
DS13 LN48YP
DS14 LN48YP
dB
dBm
DISPLAY
ΔF ✲ • NORM
S2
NC NC
1
5
10
15
20
25
30
35
40
45
49
50
55
60
65
70
47
48



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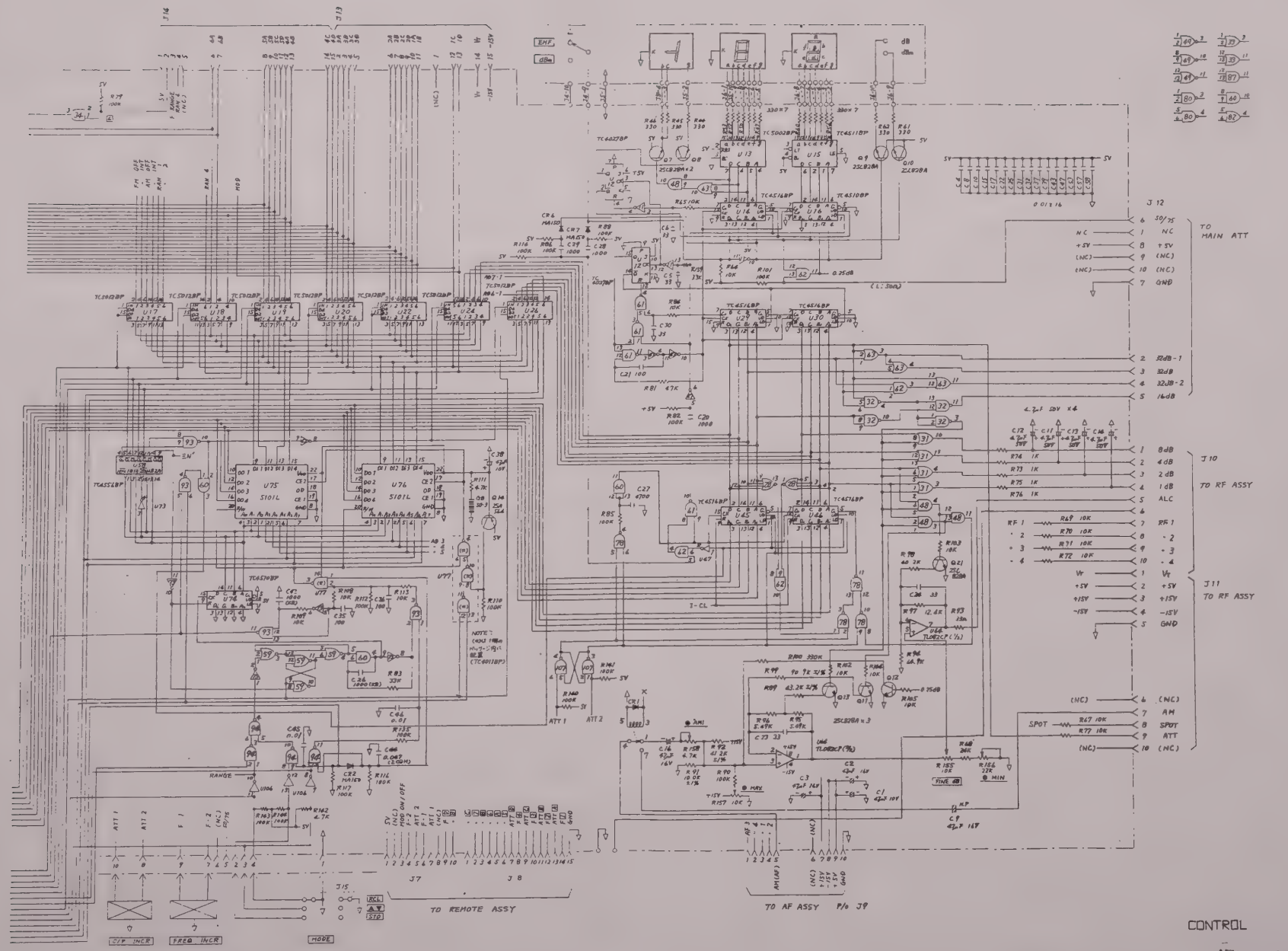
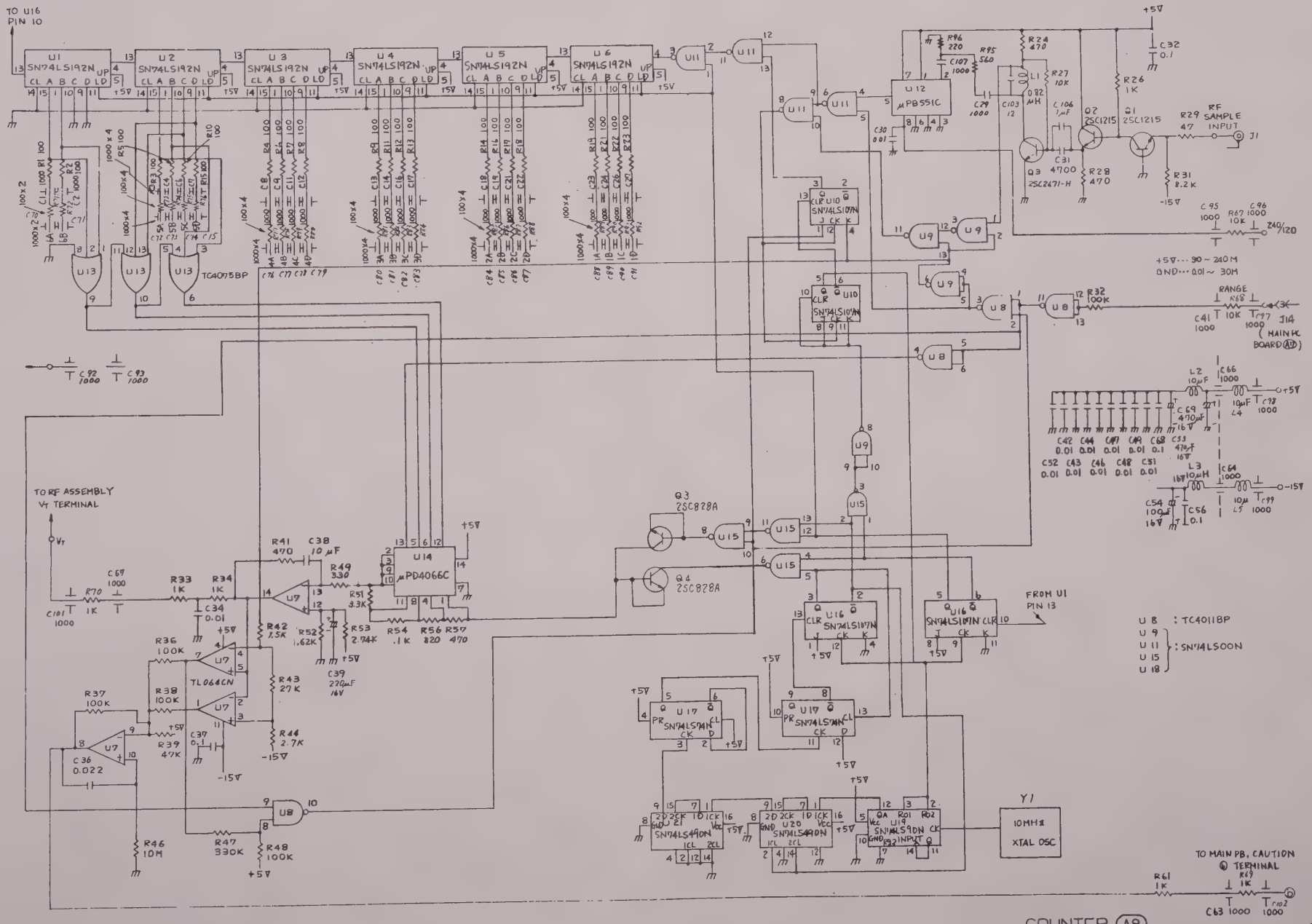
3G-13-1165


J 12
TO MAIN ATT
J 10
TO RF ASSY
J 11
TO RF ASSY
TO REMOTE ASSY
TO AF ASSY P/o J9
CONTROL
A7 – 2
5
VP-8119E10
3G-13-1165

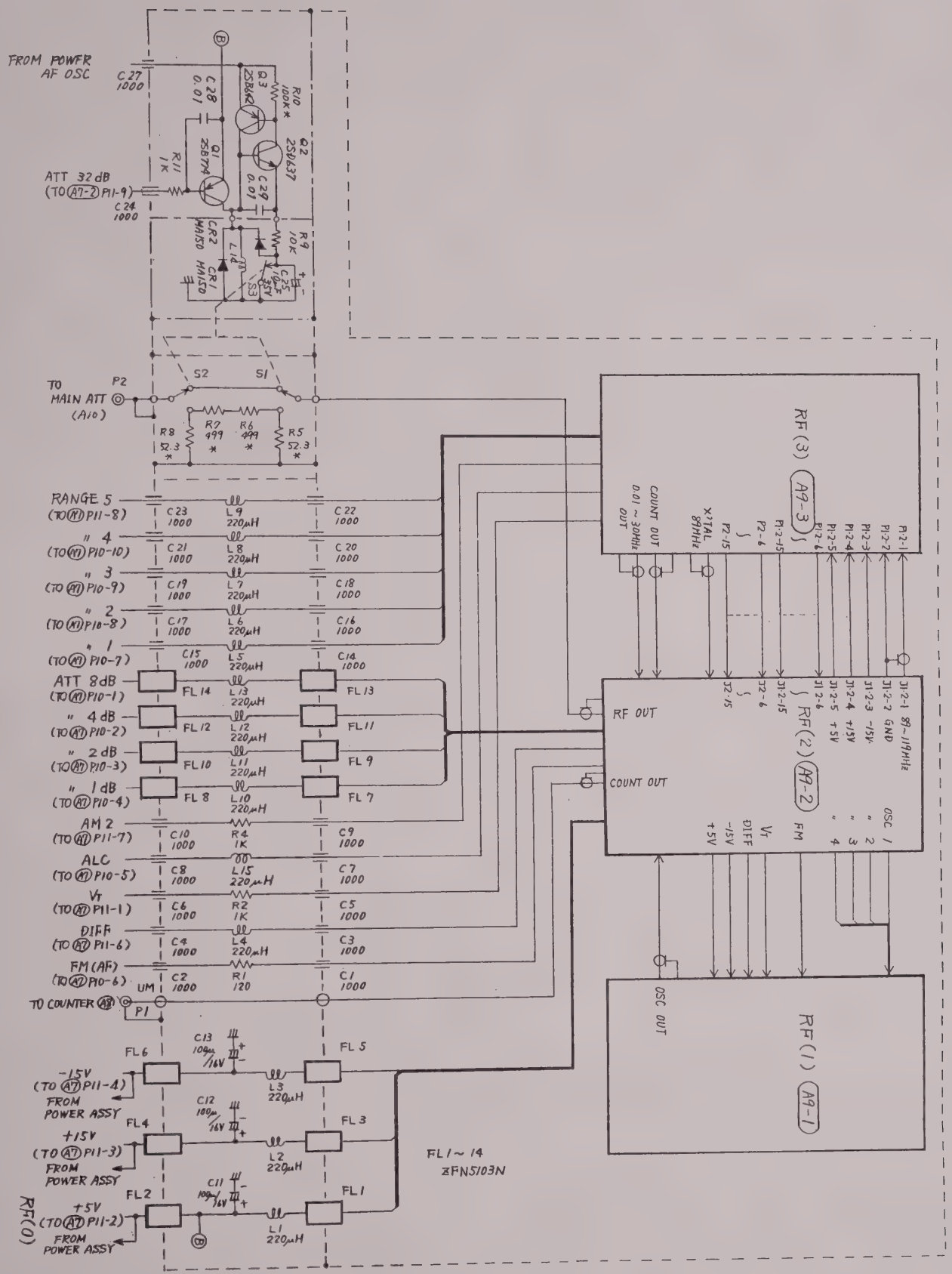


TP-8179810

3G-121165

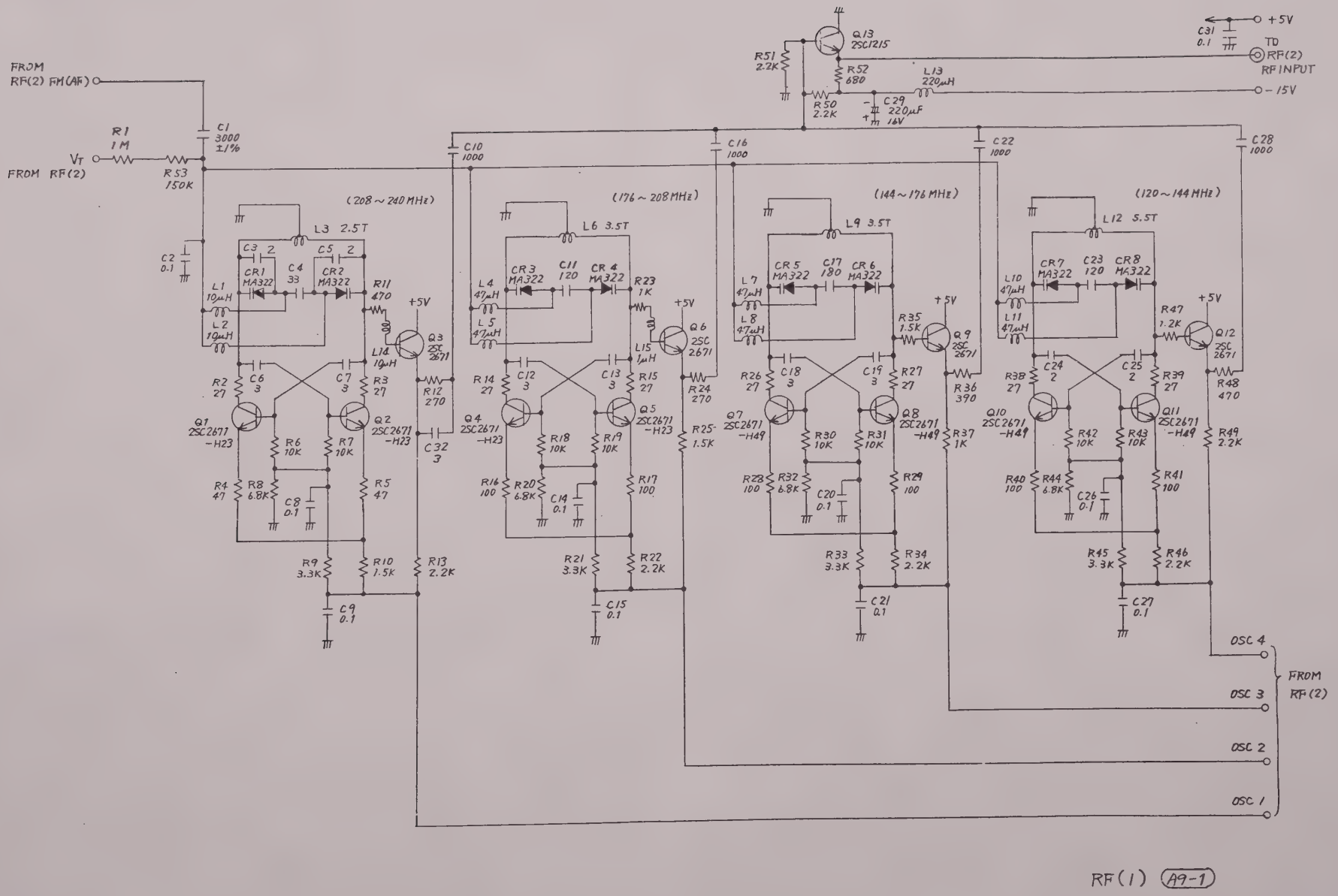
COUNTER (A8)

TP-8179B10



(A9 - 0)

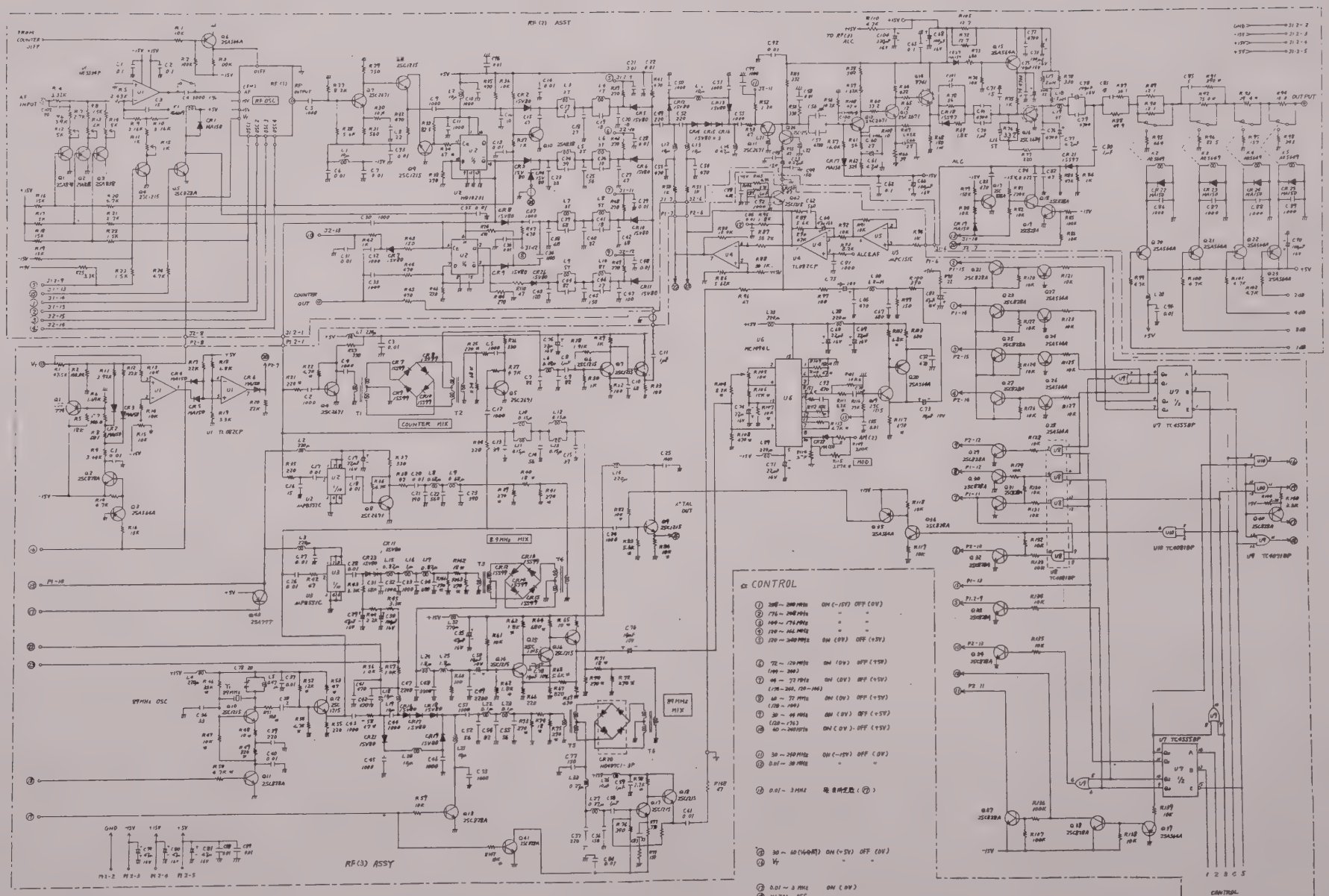
7



RF(1) (A9-1)

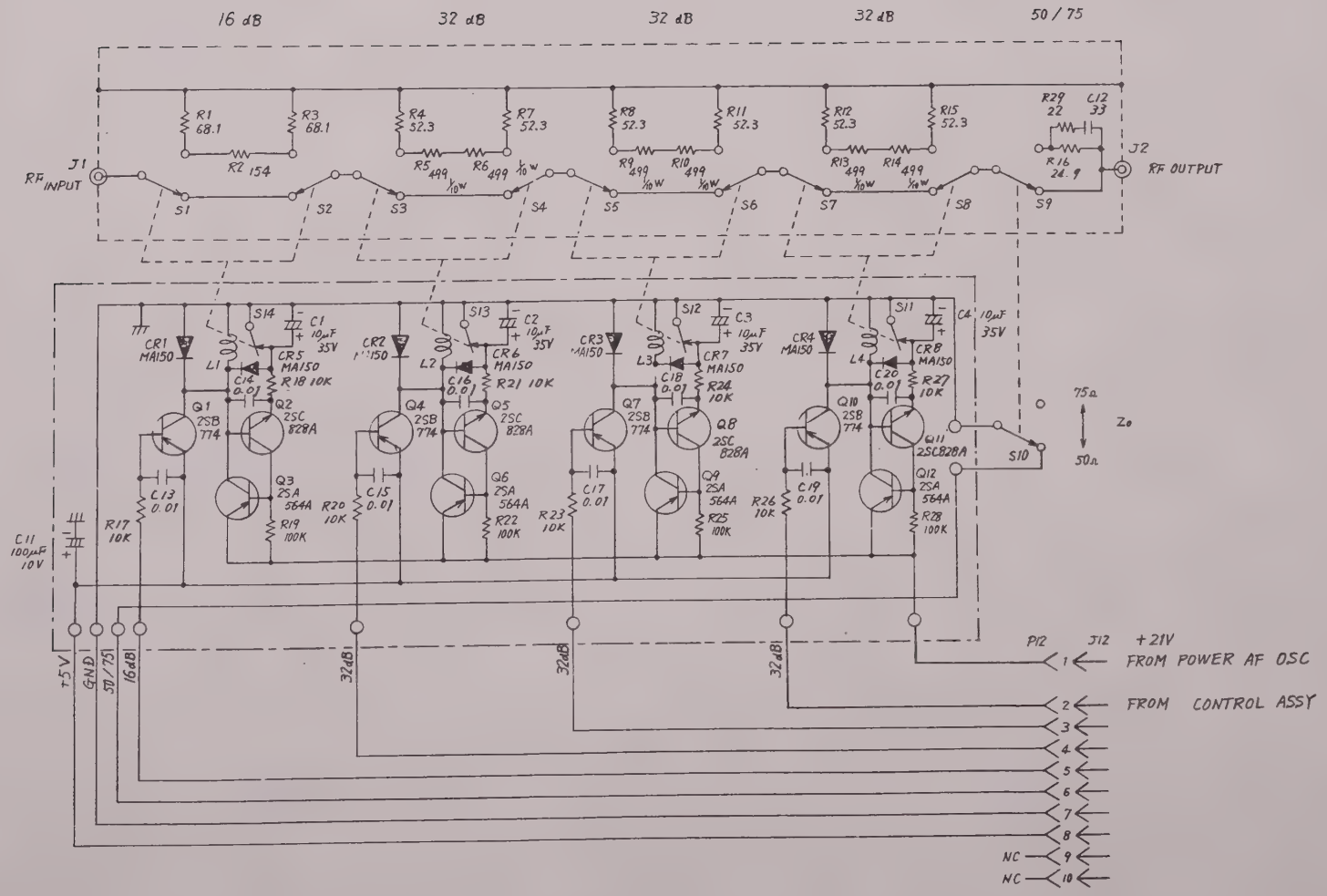
VP-8179E10

3G-13-1165


RF(2) ASSY
RF(3) ASSY
RF(2)(3) ASSY
A9-2
A9-3
CONTROL
CONTROL INPUT FROM MAIN CONTROL
COUNTER MIX
89MHz MIX
89MHz OSC
MOD
ALC
X'TAL OSC
(1) 200 ~ 240 MHz ON (-15V) OFF (0V)
(2) 174 ~ 208 MHz " "
(3) 144 ~ 174 MHz " "
(4) 120 ~ 144 MHz " "
(5) 120 ~ 240 MHz ON (0V) OFF (+5V)
(6) 72 ~ 120 MHz ON (0V) OFF (+5V)
(144 ~ 200)
(7) 44 ~ 72 MHz ON (0V) OFF (+5V)
(118 ~ 144)
(8) 30 ~ 44 MHz ON (0V) OFF (+5V)
(118 ~ 176)
(9) 30 ~ 240 MHz ON (-15V) OFF (0V)
(10) 0.01 ~ 30 MHz " "
(11) 0.01 ~ 3 MHz 他 BAND 変数 (⑦)
(12) 30 ~ 60 (140MHz) ON (+5V) OFF (0V)
(13) Vr " "
(14) 0.01 ~ 3 MHz ON (0V)
(15) X'TAL OSC
(16) 0.1 ~ 30 MHz
W ----- 1/10 W

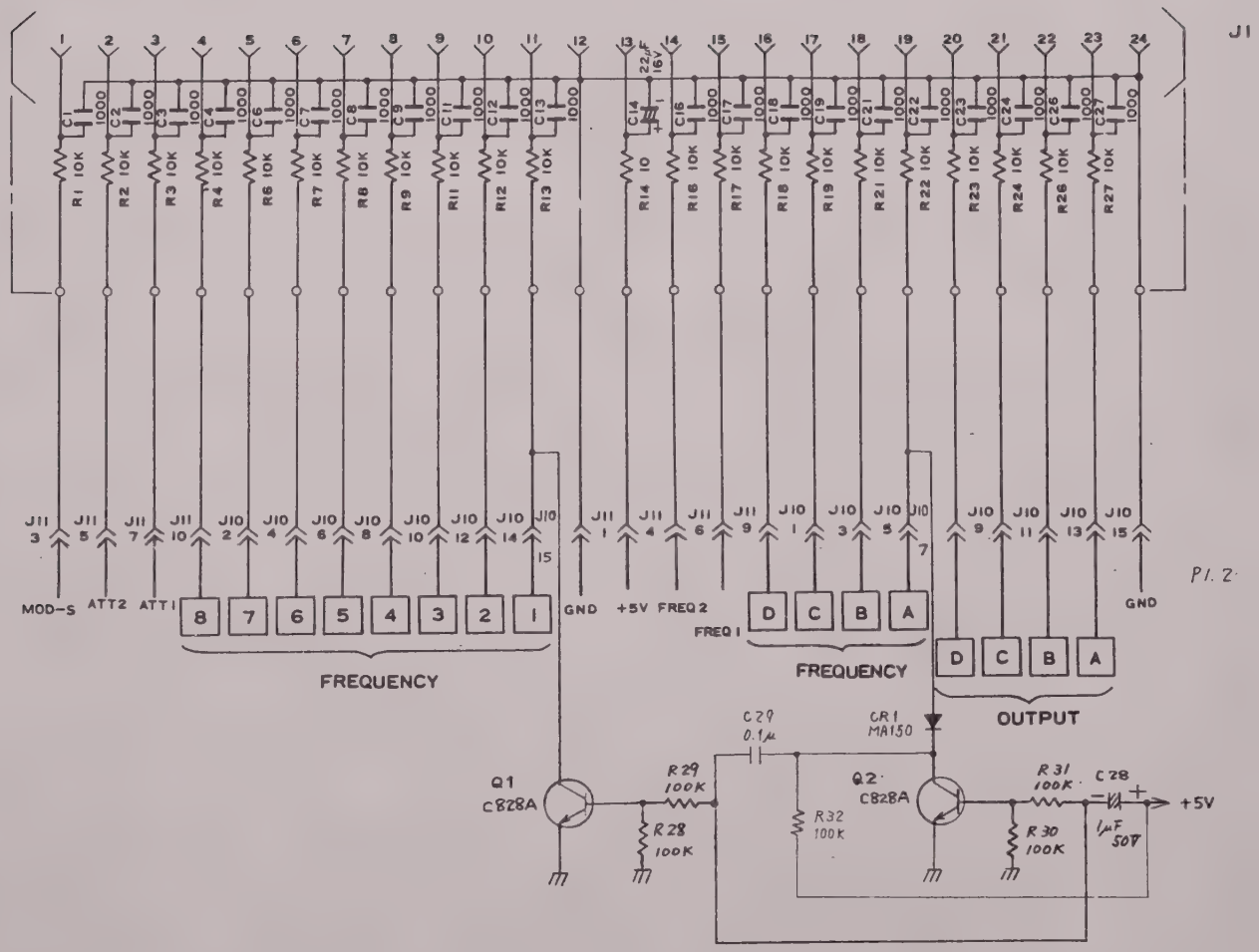
TP-8179B10

3G-13-1165



A10 MAIN ATT ASSY

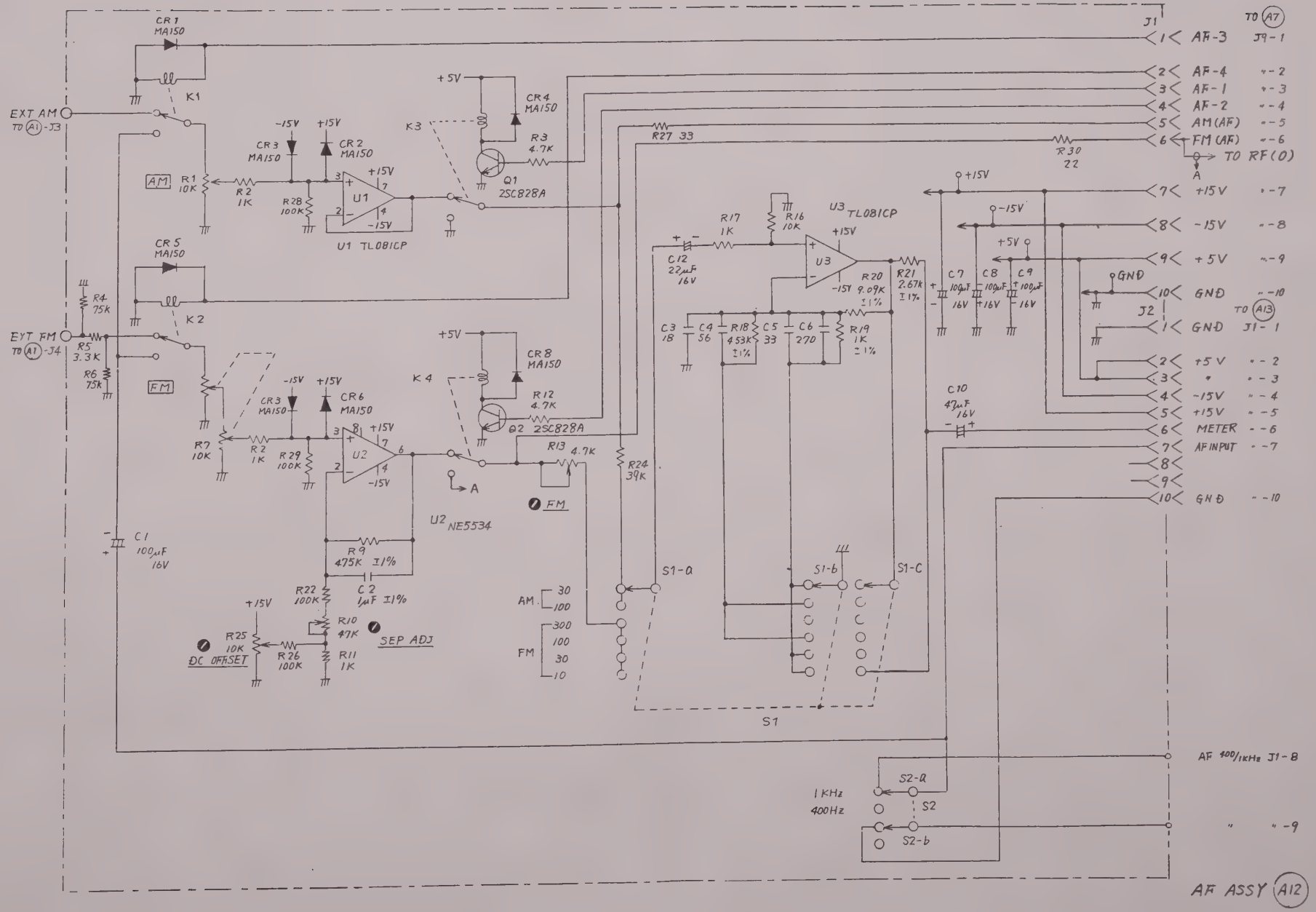
REMOTE CONTROL



P1. 2

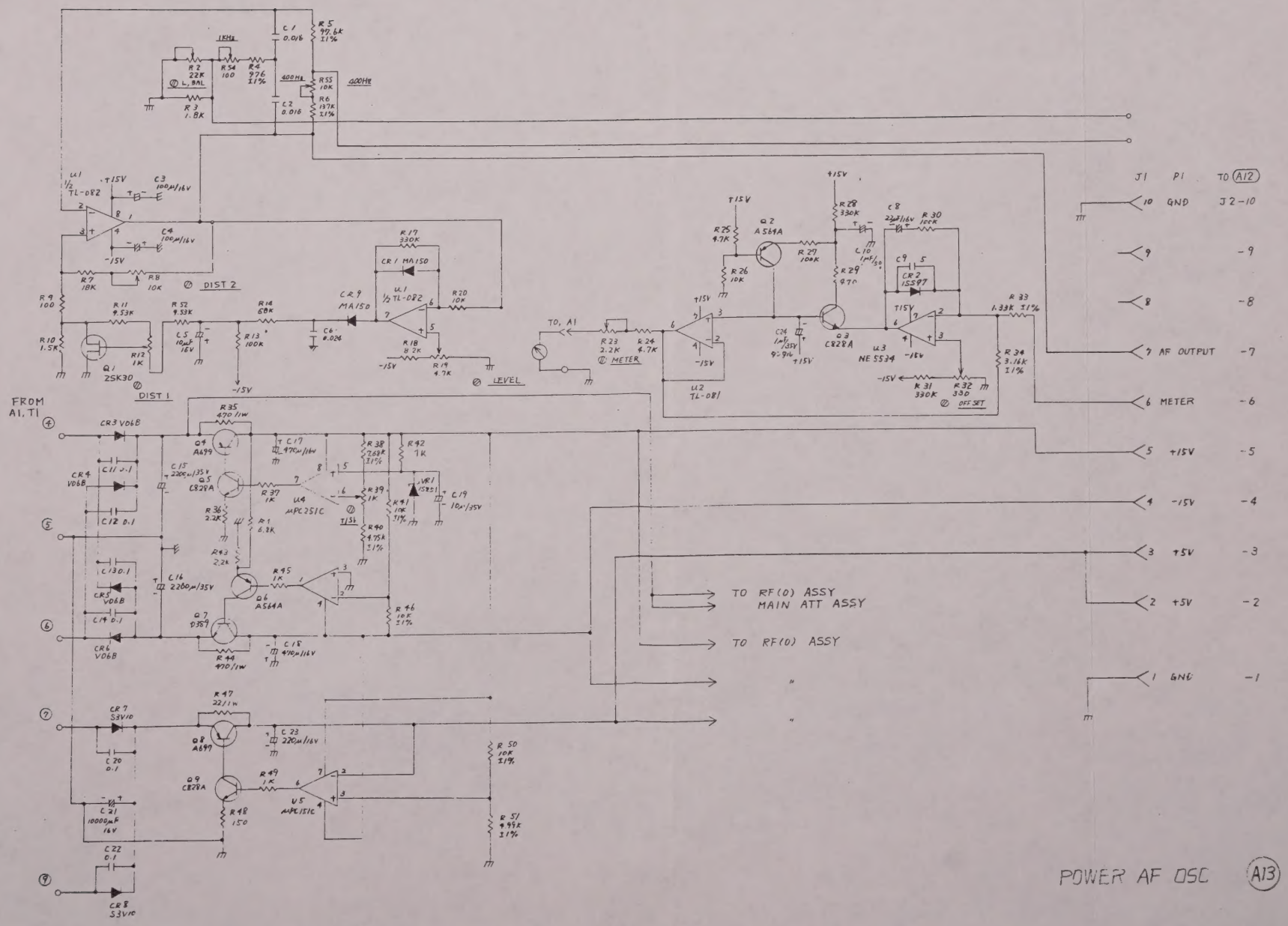
VP-81

3G-13-1165



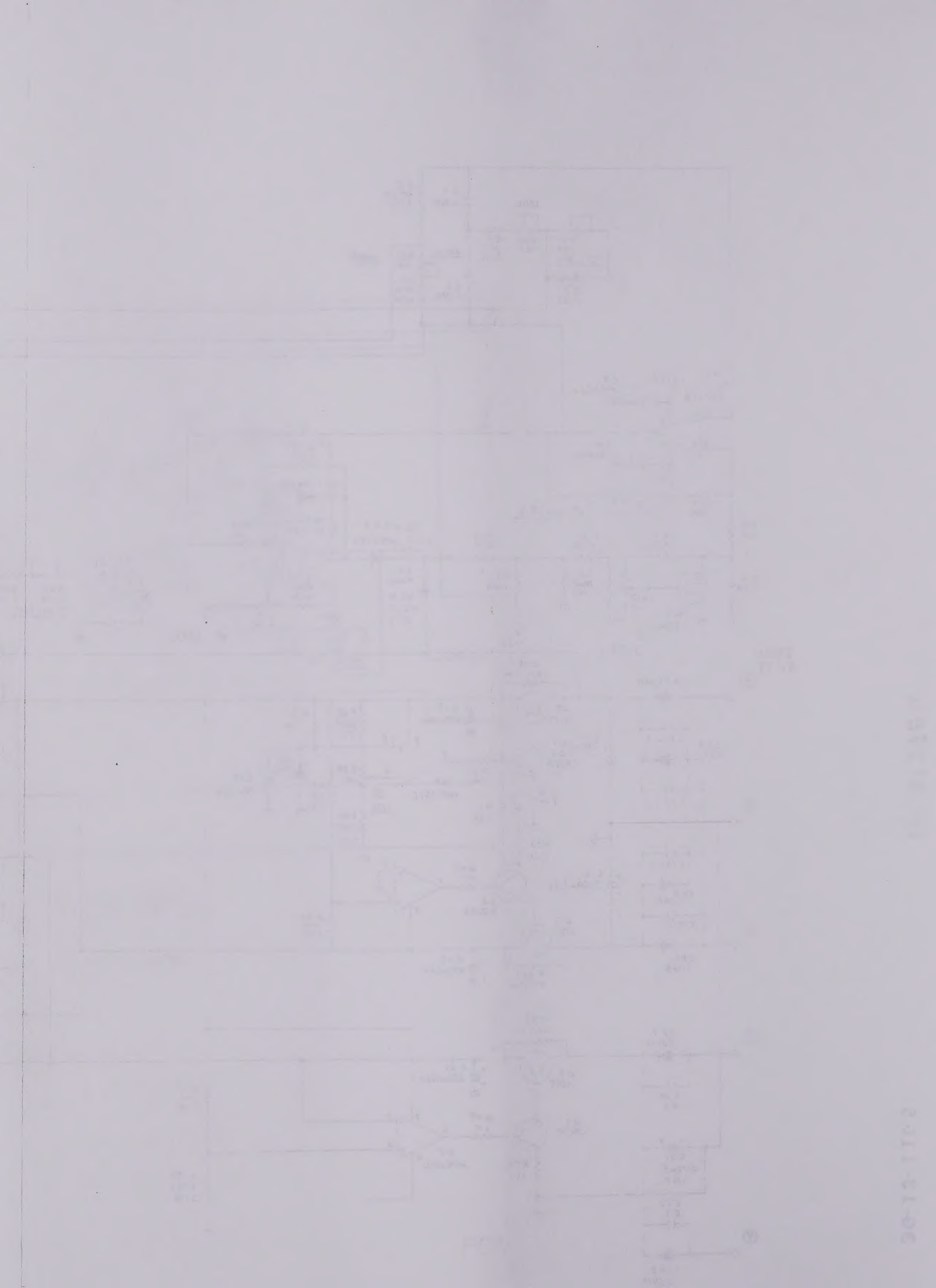
VP-8172810

3G-13-1165



POWER AF OSC (A13)

3G-13-1165
TP-8179B1C



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MA33173

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